NAVAL POSTGRADUATE SCHOOL Monterey, California



THESIS

USING MTWS FOR HUMAN-IN-THE-LOOP C2 ORGANIZATIONAL EXPERIEMENTS

by

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September 1999

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USING MTWS FOR HUMAN-IN-THE-LOOP C2 ORGANIZATIONAL EXPERIMENTS

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Submitted in partial fulfillment of the requirements for the degree of

MASTER OF SCIENCE IN SYSTEMS TECHNOLOGY (COMMAND, CONTROL, COMPUTERS, COMMUNICATIONS, AND INTELLIGENCE)

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ABSTRACT

The Adaptive Architectures for Command and Control (A2C2) research project is examining issues in joint command and control, focusing on organizational adaptation. The project includes a series of "human-in-the-loop" experiments at the Naval Postgraduate School. The experiments are in three tiers, ranging from basic to applied/operational research, with tier-1 being the most basic. Four tier-1 experiments have been conducted to date, all employing the DDD-III simulator as the experimental driver. The DDD is designed for this type of research. It offers a high degree of control and supports on-line collection of data. It also involves a high level of abstraction, which is well suited to basic research. The basic A2C2 research will continue, but the research is also beginning to branch into the more operational/applied arena. The A2C2 team has selected the Marine Corps' MTWS as the experimental driver for tier-2 experiments and has installed MTWS at NPS. The fifth A2C2 experiment used MTWS to reexamine selected research questions from experiment four, focusing on the performance of Joint Task Force decision-makers in model based and traditional JTF architectures. The architectures used in experiment five resemble as closely as possible those used in experiment four.

DISCLAIMER

The reader is cautioned that computer programs developed in this research may not have been exercised for all cases of interest. While every effort has been made, within the time available, to ensure that the programs are free of computational and logic errors, they cannot be considered validated. Any application of these programs without additional verification is at risk of the user.

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EXECUTIVE SUMMARY

The goal of the A2C2 program is to advance the state of knowledge regarding decision making in organizational settings, to include an understanding of how, why, and when organizations adapt or should adapt and what skills, training, and technology are required to support that adaptation. (Entin, 1996)

Three tiers of human-in-the-loop experiments are envisioned for the A2C2 project. The three experimental tiers are associated with research at different levels of the basic-to-applied spectrum. Tier-1 experiments are intended to examine basic research questions. They tend to be narrow in scope with highly abstract scenarios, leading to limited realism. A tier-1 experiment is highly abstract with each human player not only acting as a command decision-maker, but also his/her staff and the computer operator as well.

To date, all four tier-1 experiments, using DDD, and the fifth experiment using MTWS (the focus of this thesis), have employed variants of the same basic scenario, which was abstracted from a joint training scenario used at the Armed Forces Staff College. The JTF forces must accomplish a set of approximately 50 tasks, some known and some surprise, and some with temporal interdependencies, to achieve the overall mission.

Tier-2 and -3 experiments are intended to help transition relevant findings into the more operational/applied research areas. These are "envisioned to be more complex scenarios, more operationally/strategically oriented, joint in nature, require longer trial times in order to capture events of interest, be more distributed in design, and finally, in tier-3, to make of use operating forces as subjects." (Porter, 1996)

Tier-2 experiments are similar to tier-1, but use a more realistic simulator or higher fidelity model to reproduce a scenario otherwise similar to those used in previous tier-1 experiments. The first tier-2 experiment conducted at NPS was A2C2 experiment five. For experiment five, the Marine Air Ground Task Force (MAGTF) Tactical Warfare Simulator (MTWS) was used. In experiment five, each human player again acted as a command decision-maker and his/her staff. But, the use of MTWS, a higher fidelity simulator than DDD, created the need for both an operator and a decision-maker in each node.

Finally, tier-3 experiments will transition the A2C2 project from simple exercises involving officer-students to wargames and operational exercises that may involve an actual JTF commander and the forces and assets that would be used future real-world military operations.

The first tier-3 experiment was conducted during the summer of 1999, with COMCARGRU

ONE (CCG-1) using MTWS-generated scenarios in the Systems Technology Battle Lab (STBL).

This experiment was designed to help CCG-1 prepare for his role as Commander Joint Task

Force in Global 99, while also providing operational feedback for the A2C2 project.

For A2C2 experiment five objectives were to develop and test, with the Systems

Technology Battle Lab (STBL) staff at the Naval Postgraduate School and with contractor
support, a scenario on MTWS that as closely as possible resembled the DDD scenarios used in
experiments three and four, and develop a data extraction technique from MTWS.

In addition, the following research questions were asked:

- Was the accuracy for performing tasks the same or different for the four-node vs. the six-node architecture?
- Was the coordination for performing tasks the same or different for the four-node vs. the six-node architecture?

- Were the MTWS results consistent with the results from similar experiments conducted using the DDD?
- What special considerations, if any, are necessary when conducting controlled experiments using MTWS?

Experiment five attempted to use a tier-2 model – MTWS – in an abstract way to facilitate comparison of the results to those realized in experiments three and four, which were played using a tier-1 model – DDD. Based upon those questions above the author, in experiment five, compared the results of experiment five with the DDD-based experiments three and four results discussed above to see how closely the two models reflect each other. Toward this goal, the author sought to examine the following research questions.

- What is the feasibility (and resources required) to collect the same or similar measures using MTWS as collected from the DDD?
- What factors should be considered when selecting the experimental driver when the research question does not clearly favor one over the other (deciding between the DDD and MTWS)?
- In order to better control the initial comparisons between MTWS and DDD, MTWS was played in as highly an abstract mode as it was able to support (see Greenwood, 1998). What are the implications for using a high fidelity tactical simulator in a low fidelity environment?
- Does the use of trained operators between the decision-makers (subjects) and the experimental simulator affect performance?

Results of the above questions are briefly presented as follows. There was no significant difference in accuracy between the four- and six-node architectures. This compares favorably with the accuracy results in experiment four. Compared to experiment three, the coordination required to complete the selected tasks was examined and found to match expectations, the model-based architecture required significantly less coordination than the traditional architecture.

Special considerations necessary when conducting controlled experiments using MTWS revolved around the differences and similarities between MTWS and DDD. The standard MTWS database used in this experiment included realistic parameters for movement speed (slower than DDD), especially ground forces, while DDD used speeds tailored so it was possible to complete the trial within the allotted time. The most noticeable differences between MTWS and DDD, due to this database resolution issue, was that all the MTWS teams completed the scenario, and most were well ahead of DDD completion times (Approximately 22 minutes for completion in MTWS compared to approximately 40 minutes in DDD). Most teams completed their tasks in 15 to 25 minutes.

Another control difference was Red play, in DDD Red was scripted using software. In MTWS, parts of the Red forces were played by manually entering batch files or keyboard commands based on a written script. The rest of the Red forces were time scripted via an MTWS Batch File.

Similarities between MTWS and DDD included the Common Operational Picture, architectures, tasks, resources, command structure, and in general the DOE issues remained the same in experiments four and five.

The feasibility and diversity of resources required to collect the same or similar measures from MTWS for this experiment was fortuitous. First having lead team members who can program is not normally a requirement for the A2C2 experiments, however with the unique nature of the MTWS output, LT Ron Soule, USN was vital to the success of this experiment. He developed the data extraction program in Pascal which took the MTWS data and converted it into an Excel spreadsheet available for analysis. MAJ Jon Cook's, USMC, expertise with Excel

proved extremely valuable in analyzing the data collected. The data analysis program he wrote in Excel proved invaluable for speeding up the analysis of the large amounts of data produced from MTWS. It should be noted that current models of MTWS employ an After Action Review (AAR) system that automates data collection and aggragation.

Based on the results of both the accuracy and coordination, we believe that we can employ whichever simulator is appropriate for the research question at hand without fear that results will be confounded with choice of simulator. The characteristics of the architectures tend to manifest themselves regardless of simulator. Two key experimental driver selection factors were:

- Control versus Realism and
- Stochastic versus deterministic characteristics.

Time is also a critical factor in choosing a model and is directly related to sample size,

(The larger the sample size the more time needed to run both training sessions and run the
scenario.) since experiment five sample size was small the following were the key time factors.

- time to run the scenario
- time to train the players, and
- time to obtain the necessary data.

Both realism and time in experiment five were related to the complexity of the interface and data displayed.

MTWS employs stochastic processes to calculate outcomes, while DDD's are deterministic. This difference had implications in the statistics collected from each simulator. Stochastic processes may require a larger sample size to produce the same statistical precision.

MTWS' stochastic traits were most obvious during the interaction between the engineers and the minefields on the roads. By providing MTWS operators and to aid the decision-makers at each node, a number of trials were reduced in both the training phase, to reduce any learning effects over time, and during the performance trials. Using four versions of the scenario ensured that both the operators and decision-makers would not play the same version of the scenario, and it also attempted to reduce the stochastic effects on the outcome. (See Appendix A for the team assignments and Appendix J for the four script versions played.)

In summary, the primary focus of experiment five was to determine whether the performance results of experiment four (equivalent performances of the four-node, model-based architecture and the six-node, traditional architecture) could be reproduced on the higher fidelity MTWS simulator. This result was reproduced, using both the observer assessments and the simulator collected data. The experiment three coordination results were also reproduced with the traditional six-node architecture requiring more coordination amonst the players than the model-based four-node architecture.

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Aggressor Force. I would gratefully like to acknowledge their hard work and dedication, without
which the Adaptive Architectures for Command and Control (A2C2) experiment five, would not
have been possible.

I. INTRODUCTION

"The Adaptive Architectures for Command and Control (A2C2) research program is a multi-year, multidisciplinary effort to: (1) establish a body of knowledge in current and future joint command and control, and (2) develop and test theories of adaptive architectures. A guiding principle of the A2C2 program is that a practical knowledge of the interactions between the organizational and task (mission) structures is a precursor to the design of flexible organizations." (Benson, 1998) Under Office of Naval Research (ONR) sponsorship the A2C2 research team's examination of issues in joint command and control is focusing on organizational adaptation, and ranges from basic to applied/operational research.

The A2C2 research team includes representatives from ALPHATECH Inc., APTIMA Inc., University of Connecticut, George Mason University, Carnegie-Mellon University, Michigan State University, and the Naval Postgraduate School (NPS).

Previous research, with relatively simple organizations and tasks, has confirmed the common belief that organizational performance is higher when there is a "match" between the task and the associated organizational structure or architecture. Generalized, this leads to an underlying premise of the A2C2 research program, that joint organizational architectures should somehow attempt to match the available resources to the missions (task structures) at hand in an optimal manner. Furthermore, changes to the resources available or the task structure should in turn induce changes to the joint architectures. In order to design adaptable joint organizations, capable of effectively dynamically changing tasks while sustaining high performance, we need to

increase our understanding of the interactions between joint organizational architectures and task structures. This is a key focus of the A2C2 program.

A. BACKGROUND

The goal of the A2C2 program is to advance the state of knowledge regarding decision making in organizational settings, to include an understanding of how, why, and when organizations adapt or should adapt and what skills, training, and technology are required to support that adaptation. (Entin, 1996)

The A2C2 program uses a "design-model-test-model" (DMTM) framework to conduct its research. Within this framework, models are employed before the experiments ("tests") both to design organizational architectures and to pre-play the experiment. After the experiments, models are compared to data collected during the experiment to validate and improve the models so they can be used to conduct additional analysis. The "test" or experimental portion of the research includes a three-tiered series of "human-in-the-loop" experiments at the Naval Postgraduate School (NPS). These experiments are designed in such a manner that data can be collected both to validate and improve the models and to examine the experimental research questions and hypotheses.

Three tiers of human-in-the-loop experiments are envisioned for the A2C2 project. The three experimental tiers are associated with research at different levels of the basic-to-applied spectrum. Tier-1 experiments are intended to examine basic research questions. They tend to be narrow in scope with highly abstract scenarios, leading to limited realism. Tier-1 involves controlled experiments using NPS officer-students playing roles as Joint Task Force (JTF)

decision-makers. The tier-1 experiments conducted to date (A2C2 experiments one through four) used the Distributed Dynamic Decision-making (DDD) III simulator, which was specifically modified for use in A2C2. Prof. David Kleinman developed the DDD-III at the University of Connecticut (Kleinman et al., 1996), and modified it at the University of Connecticut and at the Naval Postgraduate School to meet experimental needs. This simulator is designed for, and ideally suited to basic research. It offers a high degree of experimental control and supports on-line collection of a variety of user-specified measures. A tier-1 experiment is highly abstract with each human player not only acting as a command decision-maker, but also his/her staff and the computer operator as well.

To date, all four tier-1 experiments, using DDD, and the fifth experiment using MTWS (the focus of this thesis), have employed variants of the same basic scenario, which was abstracted from a joint training scenario used at the Armed Forces Staff College. A country friendly to the United States has been invaded by a neighboring state and has asked the United States for help. In response, a Joint Task Force (JTF) is assembled and tasked to conduct expeditionary amphibious operations to seize a seaport, an airport and a key bridge to facilitate the introduction of follow-on forces. The initial JTF forces must accomplish a set of approximately 50 tasks, some known and some surprise, and some with temporal interdependencies, to achieve the overall mission. Developing concepts and methods to design architectures optimally matched to such a set of tasks, and comparing the performance of these architectures against that of more traditional architectures have been key foci of the A2C2 research. "Trigger" events that dramatically alter the task set or resources available have also

been introduced during the scenario in two of the experiments (two and three) to examine structural and process adaptation. (See Appendix B for the mission briefing.)

Tier-2 and -3 experiments are intended to help transition relevant findings into the more applied and operational/applied research areas. These are "envisioned to be more complex scenarios, more operationally/strategically oriented, joint in nature, require longer trial times in order to capture events of interest, be more distributed in design, and finally, in tier-3, to make of use operating forces as subjects." (Porter, 1996)

Tier-2 experiments are similar to tier-1, but use a more realistic simulator or higher fidelity model to reproduce a scenario otherwise similar to those used in previous tier-1 experiments. The first tier-2 experiment conducted at NPS was A2C2 experiment five. For experiment five, the Marine Air Ground Task Force (MAGTF) Tactical Warfare Simulator (MTWS) was used. MTWS differs from the DDD in the realistic parameters in the MTWS database for movement speed (slower than DDD) and how the Red forces were played (some Red force moves were manually entered in MTWS). These differences and the similarities will be discussed in Chapter V. In experiment five, each human player again acted as a command decision-maker and his/her staff, but due to increased MTWS interface knowledge (See Appendix H for a screen representation) MTWS terminal operators were used in most trials.

The use of MTWS, a higher fidelity simulator than DDD, created the need for both an operator and a decision-maker in each node to run the scenario. The decision-maker/player team breakdowns are enclosed as Appendix A. Decision-maker/players and operators are discussed later under the conduct of experiment five.

Finally, tier-3 experiments are intended to transition the A2C2 project from simple exercises involving officer-students to wargames and operational exercises that may involve an actual JTF commander and the forces and assets that would be used future real-world military operations. The first tier-3 experiment was conducted during the summer of 1999, with COMCARGRU ONE (CCG-1) and his staff as the JTF decision-makers. MTWS generated scenarios were executed in the Systems Technology Battle Lab (STBL). This experiment will help CCG-1 and his staff prepare their role's as Commander Joint Task Force and staff in Global 99, while also providing operational feedback for the A2C2 project.

B. THE TYPICAL A2C2 EXPERIMENT RESEARCH TEAM

All five experiments to date have involved the A2C2 Research Team composed of members enumerated in paragraph two and four included in the introduction and a Lead Team composed of students from the "senior" Joint C4I Systems Technology (JC4I) Curriculum. The A2C2 Research Team guided the Lead Team in their development and running of the joint tactical scenario for the experiments on the simulator. The NPS Lead Team was tasked with performing a variety of research support, analysis, and administrative roles before, during, and following the experiment. In addition, as part of their course requirement, the Lead Team crafted their own research questions for which data was collected during the conduct of the A2C2 experiment and subsequently analyzed.

C. THE A2C2 RESEARCH TEAM FOR EXPERIMENT FIVE

As discussed above, two sets of researchers were involved in conducting A2C2 experiment five, the A2C2 research team and a "Lead Team" of eight NPS students. The

students were members of the Joint C4I Systems Curriculum, section JC-81, and participated as part of the requirement for the course CC4103, C4I Systems Evaluation. They were all military officers, ranging in rank from O-3 to O-5. The eight officer-students had a wide range of operational experiences from which to draw on as subject matter experts. The Lead Team was divided into two groups, experiment conduct and data with four officer-students in each. The author was the head of the Lead Team.

D. FOCUS AND SCOPE OF THESIS

This thesis focuses on A2C2 experiment five, using the selected observer based and machine generated performance and coordination data to reach any conclusions. This thesis does not include communications data nor any information about the communications and in no way provides all possible research on experiment five. Results of further research using experiment five data will be presented in future Proceedings of the Command and Control Research and Technology Symposiums and other suitable fora.

E. EXPERIMENTAL QUESTIONS

The A2C2 Lead Team objectives in direct support of the A2C2 project for experiment five were developing and testing, with STBL staff and contractor support, a scenario on MTWS that as closely as possible resembled the DDD scenarios used in experiments three and four, and developing a data extraction technique from MTWS.

In addition, the Lead Team sought to answer their own research questions as part of NPS course CC4103, C4I Systems Evaluation:

1. Was the accuracy for performing tasks the same or different for the four-node vs. the six-node architecture?

- 2. Was the coordination for performing tasks the same or different for the four-node vs. the six-node architecture?
- 3. Were the MTWS results similar to the results from similar experiments conducted using the DDD?
- 4. What special considerations, if any, are necessary when conducting controlled experiments using MTWS?

F. ORGANIZATION OF THESIS

The remainder of this thesis is organized as follows: Chapter II describes the past experiments and their impacts on experiment five. Chapter III describes the design and conduct of experiment five. Chapter IV presents preliminary results of experiment five. Chapter V discusses several ancillary research questions and presents lessons learned and future work, and Chapter VI discusses conclusions of experiment five and recommendations for further A2C2 research.

II. PAST EXPERIMENTS

This chapter discusses the first four A2C2 experiments and their influence on the objectives and conduct of experiment five.

A. PAST EXPERIMENTS

To date five ONR sponsored A2C2 experiments have been conducted at NPS, the first four at the tier-1 level and the fifth experiment beyond the tier-1 level, approaching and serving as a bridge to tier-2. All five experiments simulated a JTF conducting an amphibious assault (See Appendix B for mission briefing) within which organizational architectures and reduction in resources issues were examined. Each experiment was conducted using NPS officer-students as the JTF component commanders/decision-makers and their staffs. For completeness, a brief synopsis of experiments one and two is presented since each A2C2 experiment builds upon its predecessors. Experiment five was influenced the most and hence was built strongly on experiments three and four, thus both need to be discussed in more detail to set the stage for discussion of experiment five.

Four categories of data were collected during each of the data runs for the experiments discussed:

- 1. Simulator-collected data (DDD or MTWS data files)
- 2. Video and audio tapes
- 3. Observer-collected data
- 4. Player self-report data

The results discussed in this thesis are based on DDD for experiments one-four, MTWS for experiment five and observer-collected data. Results of all four data types collected in all five experiments can be found in the annual Proceedings of the Command and Control Research Technology Symposium (CCRTS), and previous A2C2 related theses from NPS as cited below.

1. Tier-1 Experiments One and Two

Experiment one was conducted in March of 1996. The objectives of experiment one were to evaluate the basic experimental techniques for tier-1 and to gather an initial set of data.

Experiment one explored issues associated with resource conflicts within two and three level command hierarchies. [Ref. 1]

Experiment two was conducted in November of 1996 and built on the results of experiment one. It began to examine architectural adaptation as the effect of changes in mission and reallocation of forces. [Ref. 1]

2. Tier-1 Experiment Three

Experiment three was conducted in July of 1998. It continued the exploration of the past issues and added an additional hypothesis, that in a situation where teams are forced to adapt their structures, given a choice, they will choose the architecture that most closely resembles the one that they are most recently familiar with rather than the one that is most suitable for the situation (proximity vs. optimality). [Ref. 1] The general theme of experiment three involved changes to the organization's structure induced ("triggered") by sudden significant losses of resources.

a. Objectives of experiment three

Several research areas were examined in the third experiment. A primary focus was on the choice officers, playing the role of Joint Task Force decision-makers, made with respect to changes in the organization's architecture. The objectives of the experiment were to:

- Gain knowledge about joint decision-making processes.
- Test the research hypothesis: Organizations will adapt to architecture *closer* to their current one, rather than to an optimal one that is *farther away*. (PROXIMITY vs. OPTIMALITY). See Figures 1 through 4.
- Collect data to compare model predictions with experiment performance to thus
 improve the model. (For this experiment, models generated architectures with certain
 inherent properties, predicted performance using those architectures before and after
 the trigger, calculated *distance* between architectures and simulated decision and
 coordination processes. Compare Figures 1 and 4.
- Examine the degree of coordination required to complete the resultant tasks and organizational performance. Did organizations designed to require less coordination actually exhibit less, and did this lead to better performance? Compare Figure 1 to the Post-Trigger architectures in figures 2 through 4.

b. Architectures

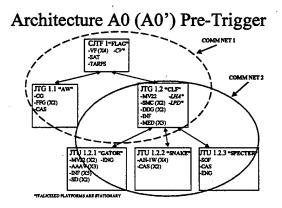


Figure 1. Six-node Architecture "Traditional" Pre-Trigger

Architecture A0 Post Trigger:

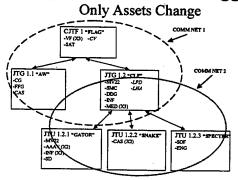


Figure 2. Six-node Architecture "Traditional" Post Trigger

Architecture A2 Post-Trigger:

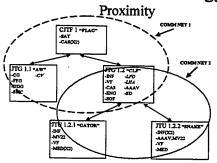


Figure 3. Five-node Architecture designed for Proximity

Architecture A1 Post-Trigger:

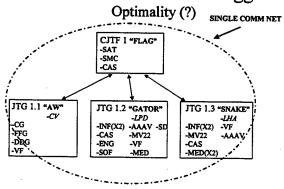


Figure 4. Four-node Architecture designed for Optimality

c. Results of experiment three

To test the "choice" hypothesis in experiment three, players were well trained and familiarized in the original architecture, a "traditional" architecture (Figure 1) that required a relatively high degree of coordination to accomplish selected tasks. They then played in this architecture up to the insertion of a trigger event, which resulted in the loss of approximately 35% of the JTF's assets.

Following the trigger, each team was given a choice of three architectures, all with the reduced asset set: the original six-node architecture they were familiar with (Figure 2); a five-node architecture relatively similar to the one they were familiar with, but designed to perform the mission better (including requiring less coordination, see Figure 3); and a four-node architecture that was very different, but designed to perform the mission in an "optimal" manner (see Figure 4).

After the trigger event all teams decided to "stay" in their original architecture despite the heavy loss of assets. When asked to make a second choice, all but one team (eight of nine) chose the architecture that was relatively similar to the one they were familiar with (refer to. Benson, et al., 1998 for views of the architectures). The teams then played the post-trigger scenario in two architectures, the one they chose and one other (of the two remaining choices) assigned in counterbalanced order.

Please note for comparison to experiment four and five architectures that the six and five-node architectures in experiment three each used two communications nets, while the four-node architecture used a single net.

In terms of post experiment coordination measurement, the architectures performed as predicted by the modelers. Based on a subset of the tasks selected before the experiment, the average number of nodes coordinating to accomplish each task was different between architectures, with organizations designed to require less coordination actually exhibiting less coordination. Performance, on the other hand, was not as anticipated. The architecture that required the most coordination (the original architecture shown in Figures 1 [pre-trigger] and 2 [post-trigger]) actually performed best. (Benson, et al., 1998) This unanticipated result impacted on the design of experiment four.

Among other things, it was desired to determine whether the lack of desire to change that the teams exhibited was due to a learning effect. That is, if the teams being more familiar with and better trained in the basic architecture were loathe changing into the less well understood architectures. The modelers predicted a change, but lack of training and familiarity with other architectures may have prompted their selection.

3. Tier-1 Experiment Four

Experiment four was conducted in November of 1998. While a primary goal of the experiment was to investigate the results of experiment three, several new research areas were also pursued.

a. Objectives of Experiment Four

The objectives of Experiment four were to:

- Gain knowledge about joint decision-making processes.
- Test the research hypotheses: For properly trained teams, model-based, optimized organizations will perform better than "traditional" ones.

• Collect data to compare with model predictions (and thus improve the models).

b. Architectures used in experiment four

Three architectures were employed in experiment four, all with the reduced asset set from experiment three. A six-node traditional architecture that required a relatively high degree of coordination to accomplish the tasks (similar to the original architecture with reduced assets in experiment three), see Figure 5 below. A six-node architecture designed to perform the mission in an "optimal" manner, see Figure 6 below, and finally a four-node architecture that was also designed to perform the mission in an "optimal" manner (similar to the "optimal" architecture in experiment three), see Figure 7 below. As in experiment three, in experiment four, the six-node architectures employed two communications nets and the four-node architecture used a single net.

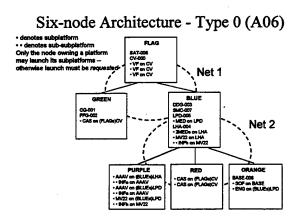


Figure 5. Six-node (A06) Architecture

¹ A2C2 Debrief from Experiment Four, August 1998, Entin, et al.

Model-Based Architecture: Six-node Type 1 (A16)

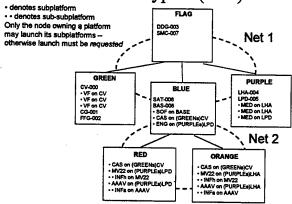


Figure 6. Six-node (A16) Architecture

Model-Based Architecture: Four-node (A14)

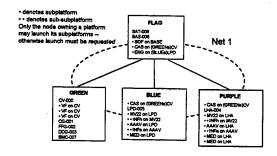


Figure 7. Four-node (A14) Architecture

c. Results of experiment four²

The preliminary results from experiment four demonstrated that the model based six-node architecture (A16) outperformed the traditional six-node (A06) significantly and also that performance of the model based four-node (A14) architecture was not statistically different from the traditional (A06) architecture despite a 33% manning reduction. More detailed results

of experiment four are given in the 1999 CCRTS Proceedings by Hocevar, et al. Assessments of Simulated Performance of Alternative Architectures for Command and Control: The Role of Coordination; Entin, Elliot Optimized Command and Control Architectures for Improved Process and Performance; Hutchins, et al. Evaluating Human Performance in Command and Control Environments; Kemple, et al. The A2C2 Experimental Concept; Hutchins, et al. Analysis of Team Communications in "Human-in-the-Loop" Experiments in Joint Command and Control.

² A2C2 Debrief from Experiment Four, August 1998, Entin, et al.

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III. OBJECTIVES AND CONDUCT OF EXPERIMENT FIVE

Experiment five was conducted in March of 1999. It attempted to replicate the second of the above experiment four findings – equivalent performance of the model-based four-node architecture and the six-node, traditional architecture using the tier-2 MTWS simulator. This experiment is the basis for this thesis and will be discussed in greater detail in the remainder of this chapter.

A. EXPERIMENT FIVE

MTWS was used as the experimental driver for experiment five. MTWS runs on Hewlett Packard Unix workstations, set up in their own local area network. Nine workstations were used in experiment five, three as servers and six as player terminals.

The scenario and forces used replicated as closely as possible those in experiment four.

The similarities and differences between DDD and MTWS are discussed in chapter V, section A, subsection 1.a and 1.b.

Like previous experiments, the scenario involved NPS officer students playing as JTF and component commanders. Again, each player represented a commander (decision-maker), and assigned staff. However, as discussed below, for most of the runs, an MTWS terminal operator supported each decision-maker.

1. Objectives of experiment five

Recall that the A2C2 Lead Team support objectives for experiment five were to develop and test, with STBL staff and contractor support, and under the direction of the A2C2

researchers, a scenario on MTWS that as closely as possible resembled the DDD scenarios used in experiments three and four, and developing data extraction techniques based on MTWS. The experimental goals were:

- Based upon summary statistics from MTWS was the accuracy for performing tasks the same or different for the four-node vs. the six-node architecture?
- Based upon summary statistics from MTWS was the coordination for performing tasks the same or different for the four-node vs. the six-node architecture?
- Are the MTWS results similar to the results from similar experiments conducted using the DDD?
- What special considerations are necessary when conducting controlled experiments using MTWS?

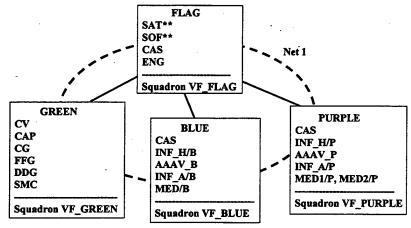
Based upon those questions the author examined experiment five as an attempt to use a tier-2 model – MTWS – in an abstract way to make it look like a tier-1 model – DDD. Then compared the results of experiment five with the DDD-based experiment four results discussed above and in the 1999 Proceedings of the CCRTS to see how closely the two models each reflect the other. Toward this goal, the author also examined those above, and added the additional research questions listed below.

- What is the feasibility (and resources required) to collect the same or similar measures using MTWS as collected from the DDD?
- What factors should be considered when selecting the experimental driver when the research question does not clearly favor one over the other (deciding between the DDD and MTWS)?
- In order to better control the initial comparisons between MTWS and DDD, MTWS was played in as highly abstract a mode as it was able to support (see Greenwood, 1998). What are the implications for using a high fidelity tactical simulator in a low fidelity environment?
- Does the use of trained operators between the decision-makers (subjects) and the experimental simulator affect performance?

2. Architectures used in experiment five

The forces were utilized in either a four-node with one communications net (everyone can talk to each other) or a six-node with two communications nets (where one decision-maker acts as the relay) architecture. These are the same basic architectures as were used in experiment four (A14 and A06); they were modified slightly as shown below in Figures 8 and 9 to suit MTWS operations and reflect model improvements.

Four-node Architecture (A14)



** Passive Asset: Need to request intelligence from controller

Figure 8. Four-node (A14) MTWS Architecture

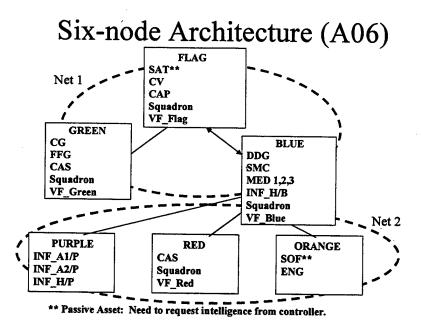


Figure 9. Six-node (A06) MTWS Architecture

Figure 8 shows the four-node (A14) architecture modified for MTWS (compare to Figure 7). Similarly, the six-node (A06) architecture examined is shown in Figure 9. It is a modification of the DDD architecture shown in Figure 5.

3. Conduct of experiment five

The participants included 7 officer-students from the JC-81 "senior C4I systems" class and 13 officer-students from the JC-91 "junior C4I systems" class from NPS. The participants were divided into 5 four-node teams (3 junior and 2 senior) and 3 six-node teams (2 junior and 1 senior). They participated in fourteen trials over a two-week period. Eight trials used the four-node A14 architecture (Figure 8). To examine the possible requirement for trained operators, three of those had each single players act as both the decision-maker and operator for a node, and

five trials used pairs of players (decision-maker and operator) in each node. Six trials used the six-node A06 architecture (Figure 9). All six-node trials used pairs of players in each node (separate decision-makers and operators). Team breakdowns are shown in Appendix A, figure A2. All handouts given to the participants for their use during the trials are enclosed in Appendix C.

a. Training

The junior class was given 5 hours of general MTWS training and 5 hours of intensive operator training followed by 10 hours of operator practice. The JC-91 officer-students acted as the operators for eleven of the fourteen trials in which operators were provided to the decision-makers (one player per node).

The senior class had all acted as both decision-makers and operators in experiment three using the DDD, and thus were familiar with the scenario. In addition, the seniors would only perform as decision-makers during experiment five, so they were only provided with 5 hours of general MTWS training and 2 hours observing a JC-91 performance trial (but not the same scenario, see Appendix A and section 6 below, as their subsequent performance trial).

Each trial was scheduled for a two-hour block. The end of a block included a performance trial lasting 30 to 40 minutes. Teams playing a four-node or six-node architecture for the first time were given the first hour to adjust using a training scenario and the architecture they would be in for the performance trial. (See Appendix A for the trial schedule).

4. Data Collection

Data collection was accomplished after every performance trial. Four categories of data were collected during each data trial:

- 1. Player self-report data
- 2. Observer-collected data
- 3. Video and audio tapes
- 4. Simulator-collected data (DDD or MTWS data files)

Player self reports and observer-collected data sample questionnaires are enclosed as

Appendix I. All completed questionnaires are held by Dr. Elliot Entin at Alphatec, INC.,

compilations of the data are available directly from him, see Appendix I for contact information.

Video and audiotapes of experiment five performance trials were created and are held by Professor Hocevar, Professor Hutchins, and Professor Kleinman, of NPS. Professor Hocevar is a member of the Systems Management Academic Group and Professors Hutchins and Kleinman are members of the C3 Academic Group.

MTWS provided the main source of data used for this thesis and will be discussed in the following subsections in greater detail. These subsections may be skipped during the first reading of the thesis for easier reading.

Data was collected from MTWS in the following manner.

a. Data Collection Gouge Sheet

The following are directions for data collection from MTWS using data parsing algorithms developed by LT Ron Soule, USN, written in Turbo Pascal 4.0. The extracted data was formatted for direct input into MS Excel for final analysis. Within the instructions MDS,

MAN and AG are MTWS labels for the controller, manual controller, and aggressor controller respectively. MDS007 and AGCON_1 were one and the same machine performing both functions concurrently.

- 1. The Aggressor MDS (MDS007) must be set up with all the appropriate controllers selected. (Note that you do not want any controllers selected during a practice run unless it is your intention to append the actual run's spot reports to the end of the practice run's spot reports. If you only want the actual run's spot reports, then wait until the practice run is completed and the actual run has been loaded into the system before you select the appropriate controllers.)
 - AGCON 1
 - MANCON_1
 - MANCON 2
 - MANCON 3
 - MANCON 4
 - MANCON 5
 - MANCON_6
- 2. The following are the names for the runs. These should be inserted in place of the <runname> field where appropriate. (A note about the run names J stands for Junior or JC-91 class, S stands for Senior or JC-81 class, the numbers represent first four- or six-node teams and the second stands for the team number, the V1-V4 are versions of the manually entered red script see Figure 10 below).

J43J42_V1
J41J43_V1
J42J41_V2
S41J42_V2
S42J43_V2
J61J62_V3
J62J61_V4
J62J61_V1
J61J62_V2
S61J62_V2
S61J61_V3
J42J42_V3
J41J41_V3
J43J43_V3

3. The required data file are kept in the following directories/files (accessible from MDS007):

/tmp/Spot_Report_Log
/mtws/db/man/<runname>/command.history

4. A directory for each of the runs has already been created to hold a copy of the data in the following location:

/mtws/mds/spotbak/<runname>

- 5. A copy of the Spot_Report_Log and command.history files must be copied to the appropriate directory for each run using the following commands from the **hpterm** window on MDS007.
 - a. Change the current directory to the appropriate /mtws/mds/spotbak/<runname> directory:

cd /mtws/mds/spotbak/<runname>

b. Copy the data files identified in step 3 (the same ones as listed just above) to the /mtws/mds/spotbak/<runname> directory.

cp /tmp/Spot_Report_Log Spot_Report_Log
cp /mtws/db/man/<runname>/command.history command.history

6. Logon to the Windows NT station:

Userid: mtwsusr Password: mtws4u

- 7. Start Windows NT Explorer and select the C: disk drive
- 8. Open up a DOS Command window (you should be at the C:\ prompt). If you are not, type:

cd C:\

9. From the DOS Command window, use ftp to copy the files from the MDS to the NT machine:

ftp 207.85.236.164

user: mtwsusr

password: mtws4u

cd /mtws/mds/spotbak/<runname>

get command.history get Spot_Report_Log close bye

10. Close the DOS Command window by entering:

exit

- 11. Move (or copy then delete) the 2 files from the C:\directory to the C:\mtwsfiles\data\<date>_<runname> directory using Windows NT Explorer.
- 12. Save the **<runname>** directory to the appropriately marked floppy disk on the A: drive.

Right click on the **<runname>** directory Send to 3½ Floppy (A)

13. Double Click on the **Parse** shortcut (in the appropriate <runname> directory) to run the Parse.EXE program.

spot_r~1 is the name of the input file to be parsed
parsed.txt is the name of the output file to which the parsed data will be saved

14. Note that an additional file gets saved as well, called **dumpfile.txt**. This file will contain any lines of text from the input file that Parse.EXE could not parse to the output file.

b. Turbo Pascal Program

A program was written to interpret the MTWS generated data and convert it into a usable form that was then fed into MS Excel for sorting. The complete program is enclosed as Appendix D. Figure 10 below shows the main parts of the parser program. The parser program was used on the Unix workstations.

Figure 10. Data Parsing Program.

Figure 11 shows how the parser works. The inputs to the parser are the Spot_Report_Log and command.history file and parsed.data file and a dump file which will contain any records the parser did not recognize. One complete set of each (excepting dump files) from both a four- and a six-node run are given in Appendix F. Soft copies of all the data runs are available from Professor Kemple in the C3 Academic Group.

PROCEDURE ParseTheFile

WHILE NOT(eof(inFile)) DO

- get a line of text from the input file
- get the key (type of report)
 field := GetField(s);
- Processes the 51 types of reports in the following categories:
 - Air Operations
 - Ground Operations
 - Ship Operations
 - CE Operations
 - Fire Missions
 - Assessment Reports
 - Miscellaneous Status Reports

Figure 11. How the parser works

c. The Excel spreadsheet

After Parsing, the data was electronically transferred (FTP'd) from the Unix workstation to a PC, put into an Excel spreadsheet and sorted. A sample of the parsed data in Excel is shown in Table 1.

DTG	UID	штм	CTLR	REPORT	MESSAGE
	SOF				HAVE DETECTED STRUCTURE
	SOF			OBJECT DETECT	HAVE DETECTED BRIDGE
	SOF		MANCON 1	OBJECT DETECT	HAVE DETECTED BRIDGE
	SOF	32SPG726000	MANCON 1	OBJECT DETECT	HAVE DETECTED RIVER
060801ZJAN99	HI	32SOG099006	MANCON 2	AIR RTE POINT	CRÙISE MISSILE HAS REACHED ATTACK POINT
060801ZJAN99	FFG	32SOG099007	MANCON 2	ASSESSMENT REPORT	AIR TO SURFACE Msn# H1
060801ZJAN99	SOFFCAS1	32SPG901122	MANCON 1	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED
060801ZJAN99	FCAS1	32SPG901122	MANCON 1	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED
060801ZJAN99	GCAP1	32SPG901122	MANCON 2	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED
060801ZJAN99	AA86	32SPF625617	AGCON 1	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED
060801ZJAN99	LHA	32SPF962990	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED
060801ZJAN99	AA86	32SPF658621	AGCON 1	AIR MSN ILLUMINATED	AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR
060801ZJAN99	LHA	32SPF962990	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED
060801ZJAN99	LHA	32SPF962990	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED
060801ZJAN99	LHA	32SPF962990	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED
060801ZJAN99	GCAP2	32SPG901122	MANCON 2	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED
060801ZJAN99	FCAS2	32SPG901122	MANCON 1	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED
060802ZJAN99	BCAS1	32SPG901122	MANCON 3	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED
060802ZJAN99	SOFFCAS1	32SOG025193	MANCON 1	AIR RTE POINT	AIR MISSION HAS REACHED ORBIT POINT

Table 1. Sample of the parsed data in Excel.

There are additional 40 columns to each set of parsed data and the reports average over 1100 lines of data collected for each run.

5. DDD III and MTWS data

The types of data collected by the two simulators is different. DDD automatically scores the games based on a number of factors. Five factors were used to score previous DDD performance trials. Part of the data from these five factors was collected from MTWS via the parser and Excel and the rest was measured by observers during post game analysis sessions.

These data were manually combined and scored by the Lead Team. MTWS version 2.0 includes

an automated after action review (AAR) module which promises to provide a wealth of automated data accessible with a modern ad hoc query engine for future tier-2 experiments. (Refer to the MTWS Manuals for version 2.0 for complete details.)

IV. RESULTS OF EXPERIMENT FIVE

This chapter discusses the results of experiment five and how closely, or not, based on both observer-generated data and machine-generated data, experiment five results resembled those of experiments three and four. This chapter also discusses the various types of reports generated during a run, how they are interpreted and the data analysis methods used.

To reiterate the goals of experiment five were to produce equivalent performance (compared to experiment four) and coordination scores (compared to experiment three) of the model-based four-node architecture and the six-node, traditional architecture using the tier-2 MTWS simulator. Also, to determine any special considerations necessary when using MTWS for controlled experimentation, such as the effect of using operators, and data collection requirements from MTWS. Ancillary questions will be answered in Chapter V.

A. REPLICATION OF THE DDD-III RESULTS OF EXPERIMENT FOUR³

The MTWS A2C2 experiment five, as discussed above in the objectives, was designed in part in an attempt to replicate the data and results from DDD-based experiments three and four. If successful the results will serve as a bridge between tier-1 and tier-2 experiments.

The results based on both observer and machine collected data indicate that the experiment four finding is reproduced in experiment five – well trained, four-person teams playing in a model-based, optimized architecture perform as well as trained, six-person teams playing in a "traditional" architecture.

³ Observer-based results from A2C2 Experiment Five Preliminary Results Debrief by Entin, et al., March 1999.

Figure 12 shows the observer performance ratings for the two architectures. As in experiment four, there is no significant difference in observer performance rating between the optimized four and traditional six node architectures despite having two more people to complete the same tasks.

Observer Performance Ratings

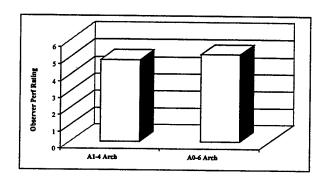


Figure 12. Observer Performance Ratings from experiment five.

Performance based on machine-collected data is reflected in Figure 13. It again shows that there is no significant difference in performance between the optimized four- and traditional six-node architectures. In this case, the data are average accuracy scores reflecting how well the team brought the required assets to bear on a pre-selected set of five tasks. The data were extracted via the MTWS Parser (Appendix D) and analysis of the data is shown in Appendix E.

Boxplots of Acc by # of Nodes

(means are indicated by solid circles)

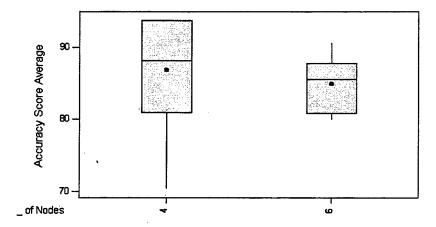


Figure 13. Boxplot of accuracy by # of nodes.

1. The effect of the use of trained operators to assist decision-makers (players) on performance.

To assess the effect of having separate simulator terminal operators and decision-makers in each node rather than having one person do both tasks (as was done on the DDD), three four-node runs were conducted with the decision-makers also being the operators (The remaining 11 of the total 14 runs had both). The differences in the observer performance ratings are insignificant. But with an indication that no-operator teams perform better. This apparent anomaly, if it is real, might be explained by two facts. First the JC-91 teams played as operators for other teams and as decision-makers with supporting operators for their first runs before conducting their last run without operator support. Thus, they participated in a considerably higher number of trials. Second, the 3 trials in which JC-91 performed as both decision-makers

and operators were the last three trials of the experiment. Both facts could indicate that learning contributed to the (not significant) differences in Figure 14.

Operators vs. No Operators

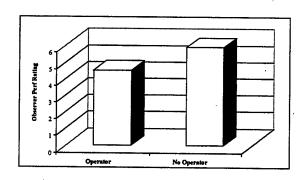


Figure 14. Operators vs. No Operators from experiment five.

2. Workload breakdown

Although it was not a specific research question, the workload distribution between nodes was compared across the architectures to see if the optimized architecture resulted in a more even distribution. The results based on observer data are shown in Figures 15 and 16. It appears that workload was distributed more evenly across the nodes in the four-node architecture, but the differences are statistically insignificant. (Entin, Outbrief of experiment five) Of interest in both architectures is the workload associated with ground operations. In the four-node architecture (Figure 8 above), Purple and Blue with the highest workload rating included the infantry units and conducted the ground operations, while in the six-node architecture (Figure 9 above), the infantry and supportive CAS nodes (Purple and Red) had the highest workload.

Workload Across Architectures

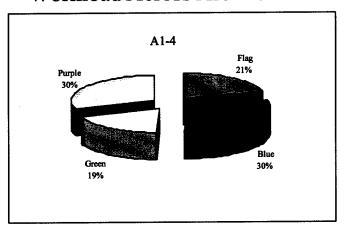


Figure 15. Workloads across architecture (A14) from experiment five.

A0-6 Workload

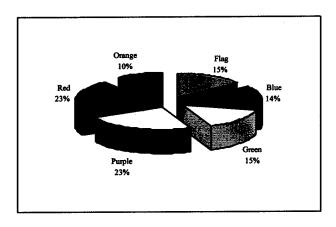


Figure 16. Workloads across architecture (A06) from experiment five.

Workload assessments based on MTWS data are shown for each team in Figures 17 and 18. The workload was estimated by counting the number of commands issued by each player.

The data parsing and Excel routines developed for handling the MTWS data are discussed in Appendixes D and F. Again, the distribution is not statistically different using Minitab one-way

analysis of variance, based on comparisons between workloads for all the performance trials. For pie chart comparisons refer to Figures 19 and 20.

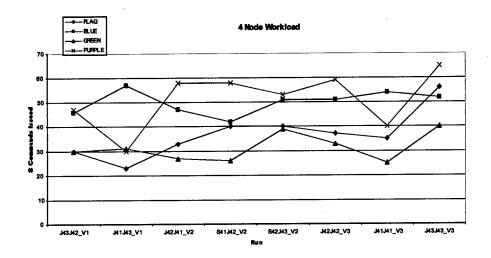


Figure 17. Four-node Workload from experiment five.

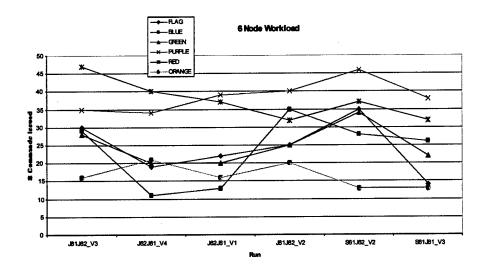


Figure 18. Six-node Workload from experiment five.

4 Node Workload data Machine Generated

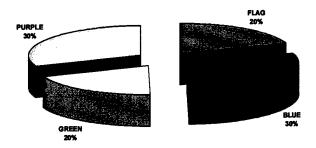


Figure 19. Four-node pie chart of workload data - machine generated.

Six-Node Machine Generated Workload Data

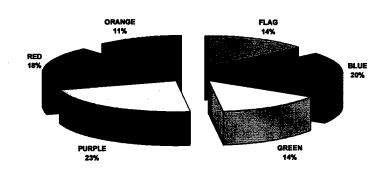


Figure 20. Six-node pie workload – machine generated.

3. The feasibility (and resources required) to collect the same or similar measures

DDD automatically collects data within its software and can be relatively easily customized for data collection. MTWS sends predetermined types of game play information to files. The two files that are important for data collection in MTWS after a run are the Spot Report Log, and command history file.

A Spot Report Log contains a record of all spot reports received by the workstation (A representative sample four-node and a six-node Spot report log are contained in Appendix F). A spot report is generated whenever an operator enters data and any corresponding actions resulting from that data entry. Sample reports are listed below. The Spot Report Log gathers all the spot reports generated during a game. The contents of a Spot Report Log are dependent on what resources were selected for the workstation (they varied from MANCON 1 to 7, MANCON's and their functions are discussed in Chapter III, (within the MTWS Gouge Sheet and below), resources for each MANCON were derived from a Summary Unit Asset Report at each workstation and printed off for the players—the Unit Asset Reports are derived from the MTWS Batch Files listed in Appendix I. To generate a comprehensive log for all forces in the entire game, the red or opposition force controller station (MANCON 7) was set to collect all spot reports for the game. The value of this technique was proven when, in one run of the scenario, the red station was not set properly. This required that data had to be collected at each workstation and manually merged. Collecting the data from the individual workstations requires that the researchers manually time correlate all the events instead of all the events being in one file and time correlated by the computer.

The *command.history* file contains every valid command entered at any of the participating workstations, representative sets of both a four-node and a six-node *command.history* files are in Appendix F.

There are two key Excel data files used for data analysis that are important to discuss.

The two key files are the *parsed.data* and *dump* files. The *parsed.data* files contain all files including the set up commands for each run, representative sets of both a four-node and a six-

node *parsed.data* files are in Appendix F. The *dump* file contains any data that Excel could not interpret. I did not include any *dump* file examples since they were empty. Soft copies of all files are available from Professor Kemple in the CC Academic Group.

Samples of various spot reports received are listed below.

a. Samples of various reports received

<u>Air Report</u>. The cruise missile launched by MANCON 2 has reached attack point. The corresponding status change report for SUB2 to AGCON1 stating that it is under air attack at the UTM coordinates 32SQF124981.

```
;AIR RTE POINT;ASW3;32SQF124981;060814ZJAN99;MANCON_2;CRUISE MISSILE HAS REACHED ATTACK POINT PRINTED BY: mds007
;STATUS CHANGE;SUB2;32SQF124981;060814ZJAN99;AGCON 1; UNDER AIR ATTACK
```

<u>Detection Report</u>. Silk 2 is reporting to AGCON 1 that it has detected a structure at UTM coordinates 32SPF879851.

```
;OBJECT DETECT;SILK2;32SPF866877;060814ZJAN99;AGCON_1;HAVE DETECTED STRUCTURE AT 32SPF879851;
PRINTED BY: mds007
```

Generic assessment report. The assessment report to the FFG that their air-to-surface attack occurred, however since no one was there, who was under MANCON 2's control, there was no assessment of the attack.

```
;ASSESSMENTREPORT;FFG;AIR_TO_SURFACE;32SQF124981;060814ZJAN99; MANCON_2; NO ASSESSMENT; Msn# ASW3
PRINTED BY: mds007
```

Ground engagement report.

PRINTED BY: mds007

```
;REPORT; GROUND_ENGAGEMENT2; 32SPF844929; 060814ZJAN99; MANCON_4, AGCON_1; Initial engagement times: INF_A/P; 060806ZJAN99 HILLIFY; 060806ZJAN99
```

INF_H/P; 060809ZJAN99
VMV_PURPLE; 060810ZJAN99
Cumulative losses:
UNIT HILLIFY; TROOPS 5 WIA, 1 KIA UNIT AGSUP; No damage assessed. UNIT
AGSUP; No damage assessed.
UNIT HILLIFY; HMMWV-40MM-MG 1 K KILLED,
UNIT INF_H/P; TROOPS 2 WIA,
UNIT VMV_PURPLE; TROOPS 4 WIA, UNIT AGSUP; No damage assessed.
UNIT FROG2; TROOPS 3 WIA,
Incremental losses (increases since the last report)
UNIT HILLIFY; TROOPS 3 WIA, 1 KIA
UNIT VMV_PURPLE; TROOPS 4 WIA,
UNIT VMV_PURPLE; TROOPS 2 WIA,
UNIT INF_H/P; TROOPS 2 WIA,
UNIT HILLIFY; HMMWV-40MM-MG 1 K_KILLED,
PRINTED BY: mds007

The ground engagement report shows the detail given by MTWS. INF_A/P and INF_H/P are infantry units controlled by the player named "Purple." HILLIFY is the corresponding red infantry unit being attacked. VMV_Purple are the MV-22's used to transport the Purple infantry.

See Appendix F for representative complete sets of all data files with the exception of the empty *dump* files, soft copies of all data sets are available from Professor Kemple.

B. ACCURACY SCORES ANALYSIS

In order to accomplish the objectives of experiment five the accuracy of the teams needed to be measured. Accuracy is based on a comparison of the combined resources of the assets used and the resources that the task required, see Figure 21 below and Appendix E, part B. This was accomplished using the parsed data files, with manual counting done by the Lead Team and entered into an Excel spreadsheet. Appendix E lists the complete accuracy calculations and spreadsheets for all fourteen trials. Table 2 lists the accuracy score (averaged across all five preselected tasks) for each experimental trial.

Run#	Date	Decision Maker	Operator	Variant	# of Nodes	Accuracy Score Avg
1	2/23/99	J41	J43	V1	4	88.15%
2	2/24/99	J43	J42	V1	4	70.30%
3_	2/24/99	J42	J41	V2	- 4	88.15%_
4	2/25/99	S41	J42	V2	4	93.75%
5	2/25/99	S42	J43	V2	4	93.75%
6	2/26/99	J61	J62	V3	6	79.96%
7	2/26/99	J62	J61	V4	6	81.22%
8	3/1/99	J62	J61	V1	6	86.82%
9	3/1/99	J61	J62	V2	6	86.82%
10	3/2/99	S61	J62	V2	6	90.63%
11	3/2/99	S61	J61	V3	6	84.34%
12	3/3/99	J42	J42	V3	4	78.58%
13	3/3/99	J41	J41	V3	4	88.15%
14	3/3/99	J43	J43	V3	4	93.75%

Table 2. Excel spreadsheet showing accuracy score data from all runs of experiment five.

The accuracy scores were analyzed using Minitab One Way Analysis of Variance with the number of nodes architecture type as the factor. The differences between architecture types were insignificant (P=0.626). This compares favorably with the accuracy results in experiment four (compare Table 2 to Chapter II paragraph A.3.b. above). Due to the small sample size, the experiment does not prove conclusively that the DDD results could be replicated on MTWS, but this is a good step towards that goal. Similar in both experiments were the data collected manually by observers during game play, analysis of experiment four data for accuracy is contained in the 1999 Proceedings for the Command and Control Research and Technology Symposium; Hocevar, et al. Assessments of Simulated Performance of Alternative Architectures for Command and Control: The Role of Coordination; Entin, Elliot Optimized Command and Control Architectures for Improved Process and Performance; Hutchins, et al. Evaluating Human Performance in Command and Control Environments; Kemple, et al. The A2C2 Experimental Concept; Hutchins, et al. Analysis of Team Communications in "Human-in-the-

Loop" Experiments in Joint Command and Control, observer collected data for experiment five is displayed in Figure 12 above. Accuracy for experiment five was calculated based on the resource capabilities of each asset used versus the resources required to complete each task (see Figure 21 below), using an excel spreadsheet designed by MAJ Jon Cook, USMC. Figure 21 shows an example accuracy calculation for North Beach. The complete accuracy scores analysis is in Appendix E.

Accuracy is based on a comparison of the resource capabilities (1st table in Figure 21) of the assets used and the resources that the task required (2nd table in Figure 21). The accuracy for the north beach in this case was 1.

N Beach	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR PY	HOLD BY	MINE Px	MED Px
	INF	2	2	0	0	20	4	4	20	IVIIVE FX	MED PX
	CAS	1	1	3	0	0	10	8	0	1	0
	DDG	0	0	0	0	ō	0	Ö	0	0	0
	ENG	0	0	0	0	ō	0	0	0	0	0
	ForceT	otal, r=	3	3	0	20	14	12	20	3	0
	Required Power, R _i =		0	0	0	10	14	12	0	0	0
,	A	djusted r; =	na	na	na	10	14	12	na	na	na
		r/R _i =		0	0	-1	1	1	0	0	0
		$[r/R_i]^2 =$	0	0	0	1	1	1	0	0	0
	2	$\sum [r_i/R_i]^2 =$	3								
$(1/n)^*\Sigma [r/R_i]^2 =$		1	=Accuracy								
								<u></u>			
		Nonzer	os. n =	3							

Resource	Capabilities
----------	--------------

AAW	ASUW	ASW	GASLT	FIRES	ARMR	HOLD	MINE	MED
1	3	0	0	10		0	1	,
10	10	1	0	9	5	0	-	
0	0	0	2	0	0	2	5	
1	0	0	10	2	2	10	1	
	1	1 3	1 3 0	1 3 0 0 10 10 1 0 0 0 0 2	1 3 0 0 10	1 3 0 0 10 8 10 10 1 0 9 5 0 0 0 2 0 0	1 3 0 0 10 8 0 10 10 1 0 9 5 0 0 0 0 2 0 0 2	1 3 0 0 10 8 0 1 10 10 1 0 9 5 0 0 0 0 0 2 0 0 2 5

Task Requirements

Hill	0	· 0	0	O	14	12	ol	οl	
Beach	0	0	0	10	14	12		0	
Airport	0	0	0	20	10	4	Ö	- 6	
Seaport	0	0	0	20	10	4	0	_ 0	<u>`</u>
Bridge	0	0	0	8	6	0	0	4	

Figure 21. Accuracy experiment five.4

⁴ MAJ Jon Cook, USMC designed the Excel spreadsheet for the accuracy scores data analysis. The Resource Capabilities and Task Requirements tables are from Entin, et al., 1996.

The accuracy was then carried forward to the overall accuracy chart and multiplied by 100, so that for this task the accuracy was 100%. This is shown in Figure 22 below.

		Ass	ts Used			
Objective	CAS	SHIP	INF	ENG	# of Controllers	Accuracy Score
			INF_H/B			
North Beach	BCAS3		INF_A/B		2	100.00%
			INF_H/B			
	PCAS1		INF_A/B			ĺ
	PCAS2		INF_A/P			ŀ
Hill	PCAS3		INF_H/P		2	100.00%
			INF_H/B			
Airport	BCAS2		INF_A/B		1	100.00%
			INF_A/P	-		
Seaport	lI		INF_H/B		2	72.00%
Bridge	PCAS6			ENG	2	68.75%
					Avg	88.15%

Figure 22. Accuracy score for one run on all objectives.

The assets delineated in the Assets Used columns and in the # of Controller's column in Figure 22 were hand counted from the data spreadsheets shown in Appendix F. Each of the tasks had a specific requirement to use certain asset options to accomplish the task, each decision-maker was given a handout containing this information. Table 3 below shows what asset options could complete each task. The decision-makers had a copy of the information for successfully completing each mission. All handouts given to the players can be found in Appendix C.

Tasks	1	Suitable Force Packages (See	Note 1)]		
Task Name	Value	Option 1	Option 2	Notes		
Take hill	20	1 CAS + DDG + 1 INF	2 CAS + 1 INF	See Note 2		
Take Beach	20	1 CAS + DDG + 1 INF	2 CAS + 1 INF	See Note 2		
Airport	30	1 CAS + 2 INF	•	See Note 2		
Seaport	30	1 CAS + 2 INF	(DDG or CG) + 2 INF	See Note 2		
Hold Hill	10	1 INF (must leave on hill)		1000 11010 2		
Lead vehicle	15	1 CAS with intel via SOF		See Note 3		
Bridge	15	1 CAS + ENG		See Note 2		
Medivac (See Note 4)	5	MED		000 11010 2		
Sea Mines	10	SMC				
Artillery	2	DDG	1 CAS			
Frogs	10	DDG	1 CAS			
Ground Mines	5	ENG		1		
Tank	5	2 CAS				
Silkworm	15	1 CAS with intel via SAT/SOF		See Note 3		
SAM Site	10	1 CAS with intel via SAT/SOF		See Note 3		
Hind Helo	4	1 CAP	CG or DDG			
Hostile Aircraft	15	1 CAP	CG or DDG			
Submarine	25	FFG	DDG			
Patrol Boat	15	1 CAS with intel via SAT	CG or DDG or FFG	See Note 3		

Note 1: Any other force packages will result in casualties or overkill/waste

Note 2: Stand-off INF or ENG when doing combined attacks with CAS or DDG

Note 3: Items in BOLD need to be positively ID'd (vs. neutrals or decoys).

Note 4: Attacks on most ground targets have possible casualty consequences that may require

medivac. Medivac tasks have a short time window - 5 mins in which to accomplish.

Table 3. Assets needed to complete each task and options.

Table 4 below lists the types of assets available, their capabilities and the symbol used to identify them. Decision-makers were also provided with this list. Each individual asset was labeled with the first letter of their position; for example the first Flag CAP launched would be FCAP_1. The operators were responsible for labeling their individual air assets, the naming convention used above was decided on for uniformity throughout the runs.

Assets/Platforms

Type*	Asset Name	Symbol	Capabilities
S	Detroyer	DDG	
S	Frigate	FFG	
S	Cruiser	CG	
S	Aircraft Carrier	CV	Has CAP, CAS
S	Landing Ship	LHA	Has MV22, MED
S	Landing Ship	LPD	Has MV22, MED, ENG
Α	Engineers	ENG	launch from LPD
G	Infantry	INF A (note 2)	launch from AAAV; confined to roads
Α	Close Air	CAS	launch from CV
Α	Fighters	CAP	launch from CV
Α	Medivac (note 1)	MED	launch from LHA and/or LPD
S	Mine Sweeper	SMC	
S	Beach lander	AAAV	
A	Troop Helo	MV22	launched from LHA and/or LPD
Α	Satellite	SAT	call controller for intel info
G	Special Ops	SOF	call controller for intel info
G	Infantry	INF H	assumed to be on MV-22's

Note 1: MED once launch have < 5 mins to complete their mission

Note 2: Must locate 1 company of INF_A (from AAAV's) at each

beach; then move them inland on roads.

*Type S = Surface Asset

Type A = Air Asset

Type G = Ground Asset

Table 4. Asset capabilities and type. Also lists symbol used for identification.

1. An automated method of collecting MTWS data from the parsed Excel spreadsheets

Figures 23 and 24 are a spreadsheet and map created in Excel to help automate the task of collecting data from the parsed Excel spreadsheets. UTM coordinates of assets are entered into the Figure 23 spreadsheet which then tells you if the coordinates are in any of the areas of interest or if it is outside those coordinates. This information is used to determine which assets coordinated to accomplish the task.

Label	UTM Grid	E	N		Modify	x	У	Objective	Hill	N Bh	S Rh	N Bda	S Bdg	Port	Ame	Location
Hill	32SPF835929	835	929	F	по	835	929	HIO	Yes	0	0	0	OBug			
N Bch	32SPF845938	845	938	F	no	845	938	N Beach	0	Yes	0	0	-	0		Hill
S Bch	32SPF861891	861	891	F	по	861	891	S Beach	10	163	Yes	0	0	0		N Beach
N Brdg	32SPG737007	737	007	G	ves	737	1007	N Bridge	0	-	169	Yes	0	0		S Beach
S Brdg	32SPF734994	734	994	F	no	734	994	S Bridge	0	0	~	res	0	0		N Bridge
Seaport	32SPG814054	814	054	G	ves	814	1054	Port	- 0	<u> </u>	0	0	Yes	0		S Bridge
Airport	32SPF714842	714	842	F	no	714	842	Airport	+	<u> </u>	-	0	0	Yes		Port
Sea	32SPF865995	865	995	F	no	865	995	Undetermined	1 0	0		0	0	0		Airport
Land	32SPF800900	800	900	F	no	800	900		1 0		0	0	0	0	0	Ocean
		-	000	-	110	000	900	Undetermined	0	0	0_	0	0	0	0	Land

Figure 23. Spreadsheet used in conjunction with map for UTM coordinate determination.

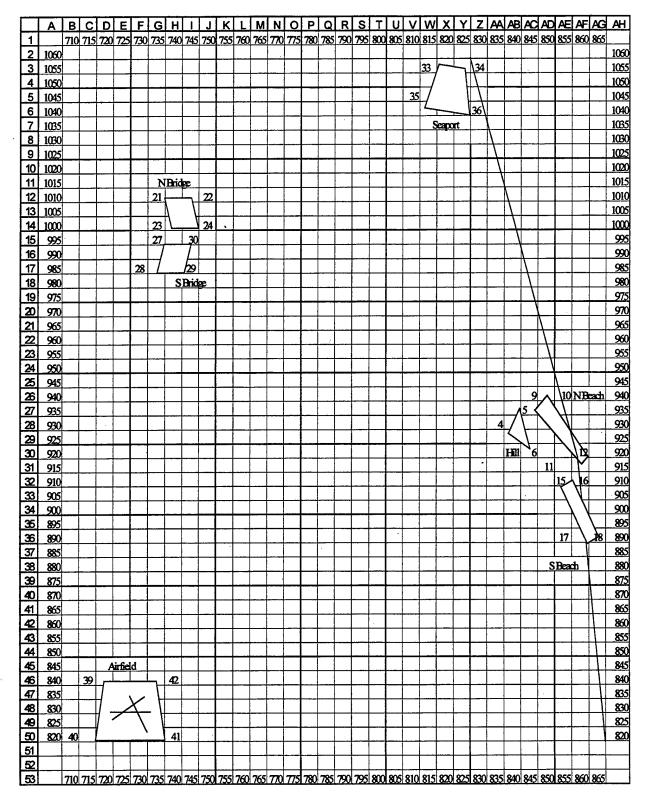


Figure 24. Map used in data analysis

C. COORDINATION

The coordination was also manually counted and then scored. The number of nodes participating in an event were divided by the total possible number of nodes gave the overall team coordination score. Figure 25 shows the overall scores with Coordination now added as the final column. This was attempting to reproduce the coordination scores of experiment three.

Run #	Date	Decision Maker	Operator	Variant	# of Nodes	Accuracy Score Avg	Coord Score Avg
1	2/23/99	J41	J43	V1	4	88.15%	1.8
2	2/24/99	J43	J42	V1	4	70.30%	1.4
3	2/24/99	J42 -	J41	V2	4	88.15%	1.4
4	2/25/99	\$41	J42	V2	4	93.75%	1.2
5	2/25/99	S42	J43	V2	4	93.75%	1.6
6	2/26/99	J61	J62	V3	6	79.96%	2
7	2/26/99	J62	J61	V4	6	81.22%	1.4
8	3/1/99	J62	J61	V1	6	86.82%	2
9	3/1/99	J61	J62	V2	6	86.82%	2
10	3/2/99	S61	J62	V2	6	90.63%	2
11	3/2/99	S61	J61	V3	6	84.34%	1.8
12	3/3/99	J42	J42	V3	4	78.58%	1.4
13	3/3/99	J41	J41	V3	4	88.15%	2
14	3/3/99	J43	J43	V3	4	93.75%	1.4

Figure 25. Coordination Score

See Figure 26 for a Minitab boxplot of coordination scores. The coordination proved to be significantly higher in the six-node architecture. The same results were obtained in experiment three. [Benson, Conduct and Assessment of A2C2 Experiment 3 and Guidelines for Future Experimentation, NPS Master's Thesis, June 1998.]

Boxplots of Coord by # of Nodes

(means are indicated by solid circles)

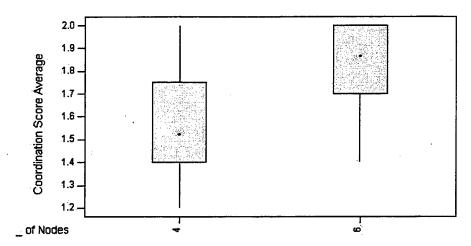


Figure 26. Minitab Boxplot of coordination scores in experiment five.

The resulting P value of 0.028 was significant. Coordination requirements were higher for the traditional architecture.

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V. ANCILLARY ANALYSIS AND LESSONS LEARNED

This chapter will discuss the remainder of the research objectives for experiment five and provide lessons learned.

A. ANCILLARY RESEARCH QUESTIONS AND LESSONS LEARNED

For convenience, the discussion of the use of operators was given in Chapter IV above along with the results for the primary research questions of coordination and accuracy and an examination of workload distribution. The remaining ancillary research analysis are provided in this section along with associated lessons learned.

1. Differences and similarities in control of experiments

Recall that MTWS was configured to play like DDD, in an abstract mode providing ease of use at the expense of fidelity, in order to control the initial comparison between the two models.

a. Differences

The standard MTWS database used in this experiment included realistic parameters for movement speed (slower than DDD), especially ground forces, while DDD used speeds tailored so it was possible to complete the trial within the allotted time. As a result, the scenario in DDD was not always completed in the allotted 40 minutes and the MTWS scenario would seldom be completed unless something were adjusted. Rather than adjust the MTWS parametric database value for movement players were allowed "magic moves" in order to complete the scenario on time. The main reason for not adjusting the database was lack of time.

After a task was completed, ground units were effectively "beamed" to the next task location.

The most noticeable differences between MTWS and DDD due to this database resolution issue was that all the MTWS teams completed the scenario, and most were well ahead of DDD completion times (Approximately 22 minutes for completion in MTWS compared to approximately 40 minutes in DDD). Most teams completed their tasks in 15 to 25 minutes.

Another control difference was Red play, in DDD Red was scripted using software. In MTWS, parts of the Red forces were played by manually entering batch files or keyboard commands based on a written script. Manually entering in some random events allowed for similar "spawned" events like the DDD had. Once a certain objective or object was reached the DDD spawned a random event (a red tank or need for a medivac) in order to have the players deal with unexpected events. The Red player seemed to offer very consistent Red opposition for Blue and this difference in control is not considered to be a factor. A sample Red script is shown in Figure 10. The time difference showed up in the red scripted portions that were machine generated, the script was set to run over a 40 minute time period and therefore with the teams finishing in half the time only half the non-manually entered red forces were seen. The complete machine red script can be seen in Appendix I. The Red player variations can be found in Appendix J.

Figure 27 shows a sample Red Force script that the aggressor controller or AGCON position would follow; there were four separate variants for the controllers to follow. They varied in the time delay of the Lead Vehicle, which Silk Worm sites were dummies or hostile, and what situations called for MEDEVAC of personnel. The scripts were used to keep the individual trials similar but with unexpected pop-up situations for the players to deal with. The players never played as the decision maker under the same Red Script option for any two trials except the final three four-node trials.

The rest of the Red forces were time scripted via an MTWS Batch File (See Appendix I). A complete set of all four variations is enclosed as Appendix J.

Option 1 for controller submitted red forces

D=Dummy	H=Hostile N = North Road	S = South Road
---------	--------------------------	----------------

Silkworm Sites	Lead Vehicle				
Silk1 = D	Ld 1 D @ T+3 N				
Silk2 = H	Ld 2 D @ T+6 S				
Silk3 = H	Ld 3 D @ T+17 N				
Silk4 = D	Ld 4 H @ T+20 S				
Silk5 = H	Ld 5 D @ T+20 N				

- A. Medical situations are spawned by the following events
- 1. Hill
- 2. Tank2
- 3. Minefield at seaport
- 4. Airport
- B. Tanks are spawned by the infantry position on the roads.
- C. SAM sites are spawned by the infantry units near the airport and the seaport.

Figure 27. Sample Red Script

b. Similarities

The Common Operational Picture, architectures, tasks, resources, command structure, and in general the DOE issues remained the same in experiments four and five.

2. Experimental driver selection factors

The two key factors considered were:

- Control versus realism and
- Stochastic versus deterministic trials.

a. Control versus Realism

Trade-offs were considered when choosing MTWS vs. the DDD as the driver for research. MTWS was chosen for its higher fidelity in tier-2 experiments because it is an established model that was developed for use by operational forces. DDD was chosen as a more abstract driver (less realistic) that provided more experimental control. These trade-offs between abstractness, fidelity and degree control is further expanded below.

Realism requires a more detailed an thus complex interface to create and play the scenarios. The DDD, because of its lower fidelity and abstract design, offers the advantage of ease of creating scenarios and more control during the conduct of the trials.

Time is also a critical factor in choosing a model and is directly related to sample size. Time effects the choice of model more when using MTWS – the training time needed is larger. Sample size should not necessarily effect the choice of model, except when time for training the players is the most critical factor.

Time to run the scenario,

- Train the players, and
- Obtain the necessary data in as little a time as possible.

Time is also a factor of the scenario design when using the model – does the format condense stimuli time to react to arcade style game or is there time for OODA loop in the scenario to think and plan. Scenario design is easier in the DDD, provided you have the knowledgable personnel available to program the DDD, and all factors can be controlled, but with a group of trained MTWS contractors, the same or similar scenario can be programmed into MTWS, but MTWS does have the stochastic characteristics discussed below.

Realism in experiment five, was thought to require trained operators to complete the scenario, which in fact did not turn out to be the case (most completed the scenario in far less than the alloted 40 minute time span), but the complexity of the interface and data displayed is a critical factor in the time needed to complete a scenario. Originally there were to be no magic moves and the scenario was going to be played in the same manner as those experimentts utilizing the DDD, the complex display of MTWS was the deciding factor in the use of operators to enter in data so that the decision maker would only have to make decisions, and not get bogged down in complex data entry. [See Appendix G for a representation of the MTWS screen and refer to Greenwood, Adapting the A2C2 Experiment for use with MTWS. Masters Thesis, Naval Postgraduate School, June 1998 and Kleinman, et al., The DDD-III: A tool for Empirical Research in Adaptive Organizations. Proceedings for the 1998 Command & Control Research and Technology Symposium (pp. 827-836).]

Numbers of support players to build and maintain a database and to construct and change scenarios can be critical if there is not enough personnel or time for development. Numbers of

supporting players to perform control and OPFOR tasks were more with MTWS than DDD.

Experiment five used enlisted petty officers as the OPFOR and to run the overall scenario in the STBL.

b. Stochastic versus deterministic trials

One of the key problems in tryng to design the MTWS scenario to emulate the DDD scenario was designing MTWS to be as abstract as DDD. MTWS processes are stochastic, producing different results. MTWS stochastic traits were most obvious during the interaction of the engineers and the minefields on both roads. In some cases the mine fields could be removed with no casualties and at other times MTWS would inflict heavy casualties. This necessitated the Blue forces being larger than otherwise would be needed to ensure that sufficient forces remained to complete all of the tasks.

3. Does the use of trained operators between decision-makers (subjects) and the experimental simulator affect performance?

Providing an operator cuts down on the decision-maker workload. Using DDD, operators were not required due to the relative ease of operator inputs. However, since MTWS is a higher resolution model that requires more detailed data input for the player, lack of an operator could have impacted a team's performance. (Refer to Appendix G) A residual effect of using trained operators is they can be overly effective and bias the results by providing more assistance during a trial than intended. Performance increases may be due to operator performance instead of decision-maker performance. (One way of preventing this is to include operators in the counterbalancing order.) In experiement five, the data does not support this, see the accuracy

and coordination scores above and in Appendix I, they do not steadily improve over the course of the experiment. The longer the training and larger number of performance trials would have affected the outcome of the experiment adversely by showing those trends discussed above and the Experimental Team was hoping to avoid this by the short training period provided and tight performance trial times.

Using MTWS operators and decision-makers at each node meant that a smaller number of trials were possible in both the training phase and during the performance trials. The more realistic the model and the inherent increase in detail means smaller sample sizes, due to using both operators and decision-makers, you have fewer trials you can perform. The more abstract (less detailed) the model, the larger the number of trials possible. This also means less training is required and that the decision-makers can function as both decision-makers and operators.

4. Lessons Learned

One key lesson is to have the scenario batch files programed well in advance so that bugs and errors can be eliminated during testing of the scenario in the time leading up to the performance trials. The initial performance trial for experiment five was delayed one day due to an error in the scenario that was only caught during the training phase of the first performance trial.

Due to the difficulty of MTWS Batch File preparation and the short time available to prepare, a trained MTWS contractor was used to develop the batch files listed in Appendix I.

This was vital to the success of experiment five.

Having lead team members who can program is not normally a requirement for the A2C2 experiments, however with the unique nature of the MTWS output, LT Ron Soule's Parser program was vital, for collecting the machine-generated data, to the success of this experiment.

Also MAJ Jon Cook's expertise with Excel proved extremely valuable in analyzing the data collected.

VI. CONCLUSIONS AND RECOMMENDATIONS

The goal of the A2C2 program is to advance the state of knowledge regarding decision making in organizational settings, to include an understanding of how, why, and when organizations adapt or should adapt and what skills, training, and technology are required to support that adaptation. (Entin, 1996)

Three tiers of human-in-the-loop experiments are envisioned for the A2C2 project. The three experimental tiers are associated with research at different levels of the basic-to-applied spectrum. Tier-1 experiments are intended to examine basic research questions, are narrow in scope and are highly abstract. Tier-2 experiments are similar to tier-1, but use a more realistic simulator or higher fidelity model to reproduce a scenario otherwise similar to those used in previous tier-1 experiments. Finally, tier-3 experiments will transition the A2C2 project from simple exercises involving officer-students to wargames and operational exercises that may involve an actual JTF commander and the forces and assets that would be used future real-world military operations. Tier-2 and -3 experiments are intended to help transition relevant findings into the more operational/applied research areas. These are "envisioned to be more complex scenarios, more operationally/strategically oriented, joint in nature, require longer trial times in order to capture events of interest, be more distributed in design, and finally, in tier-3, to make of use operating forces as subjects." (Porter, 1996)

For A2C2 experiment five, 8 members of JC4I Systems class JC-81 served as a "Lead Team" and the author served as the head of the Lead Team. The Lead Team objectives in direct support of the A2C2 project for experiment five were developing and testing, with STBL staff

and contractor support, a scenario on MTWS that as closely as possible resembled the DDD scenarios used in experiments three and four, and developing a data extraction technique from MTWS. The following are the research questions asked (See Chapter's I, II, and III) and the conclusions reached for each question.

1. Was the accuracy for performing tasks the same or different for the four-node vs. the six-node architecture?

There was no statistically significant difference in accuracy between the four- and six-node architectures. This compares favorably with the accuracy results in experiment four. Due to the small sample size, the experiment does not prove conclusively that the DDD results could be replicated on MTWS, but this is a good step towards that goal.

2. Was the coordination for performing tasks the same or different for the four-node vs. the six-node architecture?

Compared to experiment three, the coordination required to complete the selected tasks was examined and found to match expectations. The model-based architecture required significantly less coordination than the traditional architecture. This coordination issue was also examined for experiment five using the simulator collected data and the result was reproduced. Players had to coordinate more in the traditional architecture. The coordination proved to be significantly higher in the six-node architecture. This compares favorably with experiment three coordination results, but again the small sample size does not prove that the DDD results were replicated using MTWS.

3. Were the MTWS results consistent with the results from similar experiments conducted using the DDD?

The results based on both observer and machine collected data indicate that the experiment four finding is reproduced in experiment five – well trained, four-person teams

playing in a model-based, optimized architecture perform as well as trained, six-person teams playing in a "traditional" architecture.

4. What special considerations, if any, are necessary when conducting controlled experiments using MTWS?

Special considerations necessary when conducting controlled experiments using MTWS revolved around the differences and similarities between MTWS and DDD:

The standard MTWS database used in this experiment included realistic parameters for movement speed (slower than DDD), especially ground forces, while DDD used speeds tailored so it was possible to complete the trial within the allotted time. In order to complete the scenario teams were allowed to "magic move" their forces between locations—the parametric database can be adjusted to account for this, but due to the level of training of the author on MTWS and the limited timeframe for the experiment, it was determined that this was the best way to overcome the speed of movement issue. The most noticeable differences between MTWS and DDD, due to this database resolution issue, was that all the MTWS teams completed the scenario, and most were well ahead of DDD completion times (Approximately 22 minutes for completion in MTWS compared to approximately 40 minutes in DDD). Most teams completed their tasks in 15 to 25 minutes.

Another control difference was Red play; in DDD Red was scripted using software. In MTWS, parts of the Red forces were played by manually entering batch files or keyboard commands based on a written script. The rest of the Red forces were time scripted via an MTWS Batch File. The Red operator was need for the flow of the game. Spawned events like in DDD

are possible with parametric database adjustments, but this required much more MTWS skill and time to arrange.

Similarities between MTWS and DDD included the Common Operational Picture, architectures, tasks, resources, command structure, and in general the DOE issues remained the same in experiments four and five.

The following research questions were added by the author for examination in this thesis.

5. What is the feasibility (and resources required) to collect the same or similar measures using MTWS as collected from the DDD?

The feasibility and resources required to collect the same or similar measures from MTWS for this experiment was fortuitous. First having lead team members who can program is not normally a requirement for the A2C2 experiments, however with the unique nature of the MTWS output, LT Ron Soule, USN was vital to the success of this experiment. He developed the data extraction program in Pascal which took the MTWS data and converted it into an Excel spreadsheet available for analysis. MAJ Jon Cook's, USMC, expertise with Excel proved extremely valuable in analyzing the data collected. The data analysis program he wrote in Excel proved invaluable for speeding up the analysis of the large amounts of data produced from MTWS. It should be noted that current models of MTWS employ an After Action Review (AAR) system that automates data collection and aggragation.

6. What factors should be considered when selecting the experimental driver when the research question does not clearly favor one over the other (deciding between the DDD and MTWS)?

Based on the results of both the accuracy and coordination, and given that MTWS is played at the reduced functionality level in an attempt to achieve the same response from both simulators, we believe that we can employ whichever simulator is appropriate for the research

question at hand without fear that results will be confounded with choice of simulator. The characteristics of the architectures tend to manifest themselves regardless of simulator. Two key experimental driver selection factors were:

- The level of control versus the realism required to achieve experiment objectives and
- The level of abstraction required to provide sufficient control of the experiment.

Time is also a critical factor in choosing a model and is directly related to sample size,

(The larger the sample size the more time needed to run both training sessions and run the
scenario.) since experiment five sample size was small the following were the key time factors.

- time to run the scenario
- time to train the players, and
- time to obtain the necessary data.

Both realism and time in experiment five were related to the complexity of the interface and data displayed.

7. In order to better control the initial comparisons between MTWS and DDD, MTWS was played in as highly an abstract mode as it was able to support (see Greenwood, 1998). What are the implications for using a high fidelity tactical simulator in a low fidelity environment?

Playing MTWS in a highly abstract manner had implications for the stochastic nature of MTWS versus the deterministic trials under DDD. One of the key problems was in tryng to design the MTWS scenario to emulate the DDD scenario. MTWS processes are stochastic producing different results for the same actions in the next trial. MTWS stochastic traits were most obvious during the interaction between the engineers and the minefields on the roads. In some cases the minefields could be removed without casualties and at other times MTWS would

inflict heavy casualties. To prevent these occurences from affecting the completion of the scenario the Blue forces were larger than otherwise needed to complete the tasks as a means of effective experimental control.

A remaining issue to resolve in future experiments is whether results from MTWS employing full functionality will achieve results similar to the DDD results.

8. Does the use of trained operators between the decision-makers (subjects) and the experimental simulator affect performance?

Using trained operators between the decision-makers (subjects) and the experimental simulator affected the performance in the following ways. Providing an operator reduced the decision-maker workload. Using DDD, operators were not required due to the relative ease of operator inputs. However, since MTWS is a higher resolution model that provides much more detailed player input and output, lack of an operator could have impacted a team's performance.

Using MTWS operators and decision-makers at each node, meant that a smaller number of trials were possible in both the training phase, to reduce any learning effects over time, and during the performance trials.

9. Ancillary Questions, Conclusions and Recommendations

One lesson learned is to have the scenario batch files programed well in advance so that bugs and errors can be eliminated during testing of the scenario in the time leading up to the performance trials. The initial performance trial for experiment five was delayed a day due to an error in the scenario that was only caught during the training phase of the first performance trial.

In summary, the primary focus of experiment five was to determine whether the performance results of experiment four (equivalent performances of the four-node, model-based architecture and the six-node, traditional architecture) could be reproduced on the higher fidelity

MTWS simulator. This result was reproduced, using both the observer assessments and the simulator collected data.

I recommend that the A2C2 project be continued with more tier-1, -2, and -3 experiments at the Naval Postgraduate School. The Road to Global '99 with COMCARGRU ONE was a successful transition of the use of the A2C2 Project to real Navy Commanders. Global '99 will occur this September with A2C2 Project Team members there to collect data and analyze it from a real world exercise. Tier-1 and -2 experiments continue to have relevance and should be continued using both DDD and MTWS to continue the progress in the tier-3 experiments.

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APPENDIX A – SCHEDULE AND TEAMS

Schedule of Trials for experiment five and Team Breakdowns.

A2C2 Performance Schedule of Trials (SOT
Weeks 8 and 9 (23 Feb to 4 March)

WEEK	2/22/99	2/23/99	2/24/99	2/25/99	2/26/99
8	Monday	Tuesday	Wednesday	Thursday	Friday
7:00					
8:00	Train Senior	J4-3 DM, J4-2 OP	Back up	S4-1 DM	
9:00	Observers	S4-1 Train	Time Slot	J4-2 OP	J6-1 DM, J6-2 OF
10:00					S6-1 Train
11:00	Final Pilot	Back up	J4-2 DM	Back up	
12:00	Testing by	Time Slot	J4-1 OP	Time Slot	J6-2 DM
13:00	Lead Team	Lead Team		Lead Team	J6-1 OP
14:00	J4-1 + Obs	Pilot A6		Pilot A6	Back-up
15:00		J4-1 DM, J4-3 OP	Back up	S4-2 DM	Time
16:00	J6-1 + Obs	S4-2 Train	Time Slot	J4-3 OP	Slots
17:00					
18:00					

Week	3/1/99	3/2/99	3/3/99	3/4/99	3/5/99
9	Monday	Tuesday	Wednesday	Thursday	Friday
7:00					
8:00	Back up	S6-1 DM	J4-2 DM	Wash-up	
9:00	Time Slot	J6-2 OP	and OP	if seminar	
10:00					
11:00	J6-2 DM	Back up	J4-1 DM	Back-up	Back-up
12:00	J6-1 OP	Time Slot	/ and OP	time slots	time slots
13:00					
14:00		S6-1 DM			
15:00	J6-1 DM	J6-1 OP	J4-3 DM	Seminar	,
16:00	J6-2 OP		and OP	or wash up	
17:00					1
18:00					

Figure A1. Schedule of Trials (SOT) for experiment five.

					_ Junio	r and	Senior 4	l and	6 Node	Tear	ns				
					luniors					T			Seniors		
			4 Node				6 N	lode			4 N	ode			6 Node
	J4-1		J4-2	<u> </u>	J4-3		J6-1		J6-2		S4-1		S4-2		S6-1
j4-a	CHRIS	j4-e	LEE	j4-i	FRANK	j6-a	JAMIE	j6-g	LANCE	s4-a	JEFF R.	\$4-e	STEVE P.	s6-a	RUSS S
j4-b	GREG	j4-f	JAMIE	j4-j	LANCE	j6-b	GREG	j6-h	ED	s4-b	RUSS S.	84-f	MICHELLE G	s6-b	JEFF R.
j4-c	JASON	j4-g	PAUL	j4-k	ED	j6-c	SHEILA	j6⊣i	JACKIE	s4-c	RANDY C.	s4-g		s6-c	
j4-d	SHEILA	j4-h	MARK	j4-i	JACKIE	j6-d	CHRIS	j6-j	LEE	94-d	SEAN R.	84-h	MIKE	s6-d	
_						j6-e	JASON	j6-k	PAUL	П		Г		56-e	
						j6-f	MARK	j6-l	FRANK	П				s6-f	MICHELLE

Figure A2. Junior (JC-91) and Senior (JC-81) Team Breakdowns.

APPENDIX B - MISSION BRIEF

A. OPERATIONS ORDER USED

Mission Brief

SITUATION:

Country Orange has attacked the friendly nation of Country Green, a U.S. ally, and seized the northern portion of Country Green including the port of Eastport and nearby international airfield. Country Green's government has requested U.S. assistance in driving Country Orange's forces from Country Green, and the U.S. has agreed. The CINC plans call for an attack from the East to West across the northern portion of Green to drive Orange forces from country Green and reestablish Green's sovereignty. The initial objective is to seize, occupy and defend the Country Green port of Eastport and nearby international airfield to facilitate the insertion of follow-on forces. A Joint Task Force (JTF) has been formed to carry out this mission.

MISSION:

The JTF mission is to conduct an amphibious operation to seize, occupy and defend the port of Eastport and the international airfield, as the points of entry for the follow on forces.

YOUR ROLE:

After the formation of the JTF, during the movement to the objective, a significant portion of the JTF assets were diverted to a non-combatant evacuation operation (NEO), resulting in a force not well organized for the mission at hand. The CINC has been informed that no additional forces are available, and that the operation must still proceed. The CINC's planning section has designated two different architectures (organizational structures), each intended to accomplish the mission using the remaining assets in some optimal manner. To help select the best architecture, the CINC has decided to examine both using a human-in-the-loop, wargame-like simulation.

Your team has been asked to play both of the architectures in simulation mode and then report to the CINC which organizational structure appears best suited to perform the mission and why. Other teams will be playing both architectures and reporting their conclusions to the CINC.

Train hard on the assigned architectures and play them as well as you can so you can send an accurate assessment to the CINC. The quality of your evaluations will have a direct impact on the execution of the real mission.

TASKS COMPRISING THE MISSION:

The tasks to accomplish the JTF mission are presented in chronological order.

1. The Amphibious Ready Group, with embarked Marine amphibious forces, will conduct operations over North and South Beaches. The Marine force is comprised of 2 Advanced

Amphibious Assault Vehicle (AAAV)- mounted infantry companies, 2 MV-22-mounted heliborne infantry companies and other assets (e.g., combat engineers and MEDEVAC assets – see Friendly Asset Sheet). Forces will land and take both beaches. Care must be taken, as it is likely that the enemy has laid mines in the water, on the beaches, and on the roads. Mine clearing assets may have to be called in.

- 2. Prior to taking the North Beach, heliborne infantry, in conjunction with additional assets (fire support and anti-armor), will seize and hold the hill overlooking North Beach. This will prevent enemy forces from shelling North Beach. One heliborne company MUST remain on the hill throughout the operation to prevent the enemy from retaking the hill.
- 3. The road from North Beach leads to the seaport, and the road from South Beach leads to the airfield. Dismounted AAAV infantry will move down the road leading from each beach. The roads must be cleared of mines and enemy resistance. Due to the swampy nature of the terrain, all ground travel must be on the roads with the exception of the SOF forces, which have all-terrain vehicles.
- 4. A Special Operations Force (inserted prior to the amphibious operation) and satellite assets (for positive hostile identification) must determine which of two roads leads to an underground Orange mobile missile base. This requires detecting and assessing vehicle traffic along both roads to identify the lead vehicle of an enemy advance force. Once the proper road is identified, it must be cut (by blowing up a bridge) to prevent the enemy mobile missile force from getting within range of friendly forces. The bridge on the other road must not be blown up, since one of the roads is needed for friendly traffic.
- 5. Company-sized armored counterattack forces are believed to be at the seaport and airfield. If present, they must be identified and destroyed.
- 6. Both the seaport and airfield must be captured and held. The holding action is necessary to prevent the enemy from retaking them. The attack on the airfield has priority and should occur first if they cannot be attacked simultaneously.

OTHER TASKS THAT CAN OCCUR THROUGHOUT THE OPERATION:

- 1. Performance of MEDEVAC missions to remove wounded.
- 2. Protection of the battle group from hostile submarines, fast patrol boats and aircraft.
- 3. Suppression of enemy artillery.
- 4. Suppression of frog missile launchers.
- 5. Destruction (with guided munitions) of detected enemy SAM sites (most likely around seaport and airfield). The SAM sites are likely to be intermingled with dummy SAM sites.

6. Destruction (with guided munitions) of detected enemy Silkworm sites. Because enemy Silkworm sites have been placed in residential neighborhoods, SOF or Satellite must positively confirm them before attacked.

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APPENDIX C - HANDOUTS TO TEAMS

A. HANDOUTS RECEIVED BY THE PLAYERS

1. Tasks versus Force Packages

Tasks versus suitible force packages to accomplish those tasks are in Table C1.

Tasks]	Suitable Force Packages (See	Note 1)]
Task Name	Value	Option 1	Option 2	Notes
Take hill	20	1 CAS + DDG + 1 INF	2 CAS + 1 INF	See Note 2
Take Beach	20	1 CAS + DDG + 1 INF	2 CAS + 1 INF	See Note 2
Airport	30	1 CAS + 2 INF		See Note 2
Seaport	30	1 CAS + 2 INF	(DDG or CG) + 2 INF	See Note 2
Hold Hill	10	1 INF (must leave on hill)		
Lead vehicle	15	1 CAS with intel via SOF	·	See Note 3
Bridge	15	1 CAS + ENG		See Note 2
Medivac (See Note 4)	5	MED	Ì	
Sea Mines	10	SMC		
Artillery	2	DDG	1 CAS	
Frogs	10	DDG	1 CAS	
Ground Mines	5	ENG		
Tank	5	2 CAS		· · · · · · · · · · · · · · · · · · ·
Silkworm	15	1 CAS with intel via SAT/SOF		See Note 3
SAM Site	10	1 CAS with intel via SAT/SOF		See Note 3
Hind Helo	4	1 CAP	CG or DDG	
Hostile Aircraft	15	1 CAP	CG or DDG	
Submarine	25	FFG	DDG	
Patrol Boat	15	1 CAS with intel via SAT	CG or DDG or FFG	See Note 3

Note 1: Any other force packages will result in casualties or overkill/waste

Note 2: Stand-off INF or ENG when doing combined attacks with CAS or DDG

Note 3: Items in **BOLD** need to be positively ID'd (vs. neutrals or decoys).

Note 4: Attacks on most ground targets have possible casualty consequences that may require

medivac. Medivac tasks have a short time window - 5 mins in which to accomplish.

Table C1. Tasks to be completed and assets needed.

2. Descriptions of assets and platforms

Descriptions of assets and platforms available to perform the tasks listed above are in Table C2 below.

Assets/Platforms

Type*	Asset Name	Symbol	Capabilities
S	Detroyer	DDG	
S	Frigate	FFG	
S	Cruiser `	CG	
S	Aircraft Carrier	CV	Has CAP, CAS
S	Landing Ship	LHA	Has MV22, MED
S	Landing Ship	LPD	Has MV22, MED, ENG
Α	Engineers	ENG	launch from LPD
G	Infantry	INF_A (note 2)	launch from AAAV; confined to roads
Α	Close Air	CAS	launch from CV
Α	Fighters	CAP	launch from CV
Α	Medivac (note 1)	MED	launch from LHA and/or LPD
S	Mine Sweeper	SMC	
S	Beach lander	AAAV	
Α	Troop Helo	MV22	launched from LHA and/or LPD
Α	Satellite	SAT	call controller for intel info
G	Special Ops	SOF	call controller for intel info
G	Infantry	INF_H	assumed to be on MV-22's

Note 1: MED once launch have < 5 mins to complete their mission

Note 2: Must locate 1 company of INF_A (from AAAV's) at each

beach; then move them inland on roads.

*Type S = Surface Asset

Type A = Air Asset

Type G = Ground Asset

Table C2. Assets available and type.

3. MTWS Gouge Sheet

An MTWS Gouge sheet was also distributed to the players to normalize naming conventions of assets and describe operations of various types of assets.

MTWS Gouge

AIR

Naming Air Missions - Name your CAS / CAP missions according to the color node you

are playing i.e. Green: GCAS1; GCAS2

Blue: BCAS1; BCAS2 Flag: FCAP1, FCAP2

Who owns CAP / CAS – Remember that is you have F-14's in your inventory, you are CAP. If you have FA-18's, you are CAS.

Engaging Air to Air – To engage an enemy aircraft with CAP, you must VECTOR to that track in order to engage it.

SURFACE / GROUND

<u>Harpoon</u> – When attempting to fire a Harpoon from the FFG or DDG, you must first use the Define-Fire Mission command to identify all aspects of the fire mission before you can issue a Define-Quick Fire Mission. (When defining the mission, be sure to use the Harpoon-WH).

Moving Assets – In order to expedite game play and to simplify unit movement, all assets should be moved to their destinations via the Locate command. (DO NOT leap frog obstacles / predetermined tasks...i.e. tanks and minefields).

Engaging AG Tanks – To engage enemy tanks, you must use a Ground-Mission-Divert command.

INTEL

<u>SAT / SOF</u> – The SAT / SOF assets are played as passive units. The owner of either or both of these units must request from Control, intelligence on whether the patrol boats, SAM sites, SILK sites, and lead vehicles are true aggressors or dummy units. Only the owner of these units may request the intelligence from control.

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APPENDIX D – THE MTWS PARSER PROGRAM

A. THE MTWS PARSER PROGRAM

```
PROGRAM MTWSParser;
USES
   crt,
   dos;
VAR
   infile,
   parsefile,
   dumpfile : text;
   PROCEDURE OpenFiles (VAR infile, outfile, dumpfile : text);
   VAR
      ok
                    : boolean;
      infilename,
      outfilename,
      dumpfilename : string;
      FUNCTION ValidFileName (filename: string) : boolean;
      VAR
         f : text;
                     {text file}
      BEGIN {function ValidFileName}
         assign (f, filename);
                                {associates a file name with a file pointer}
         {$I-}
                                {turns off I/O Checking to prevent an error
                                 from crashing the system}
                                {resets the file pointer}
         reset (f);
         {$I+}
                                {turns on I/O Checking and obtains an
                                 IOResult }
         IF (IOResult = 0) THEN {an IOResult of 0 indicates no problems}
            ValidFileName := true
         ELSE
                                {any other IOResult indicates a problem in
                                 resetting the file pointer, e.g., the
                                 filename was not invalid}
            ValidFileName := false;
     END; {funciton ValidFileName}
  BEGIN {procedure OpenFiles}
     ok := false;
     WHILE NOT (Ok) DO
     BEGIN {while loop}
         write ('Enter the name of the input file: ');
         readln (infilename);
         Ok := ValidFileName (infilename);
     END; {while loop}
     assign (infile, infilename);
     reset (infile);
     write ('Enter the name of the output file: ');
     readln (outfilename);
     assign (outfile, outfilename);
     rewrite (outfile);
```

```
write (outfile,';DTG;UID;UTM;CTLR;REPORT;MESSAGE;TRACK');
      write (outfile,';UID2;UTM2;STATUS;TYPE;# UNITS;WIA;KIA');
      writeln (outfile,';K_KILLED;M_KILLED;F_KILLED;UNDAMAGED;NON MISS
CAPABLE; DESTROYED; DTG2');
      dumpfilename := 'dumpfile.txt';
      assign (dumpfile, dumpfilename);
      rewrite (dumpfile);
   END; {procedure OpenFiles}
   PROCEDURE ParseTheFile (VAR infile, outfile, dumpfile : text);
  VAR
     s,
      tmp,
      field : string;
     FUNCTION GetWord (VAR s : string) : string;
     VAR
              : integer;
                         {index counter}
     BEGIN {function GetWord}
        IF (s = "") THEN
           GetWord := s
        ELSE
           BEGIN
              i := 1;
              WHILE ((s[i] = ' ') AND NOT(i > Length(s))) DO
                  delete (s,i,1); {deletes preceeding spaces}
              WHILE NOT((s[i] = ' ') OR (i > Length(s))) DO
                 i := i+1;
                            {increments index counter}
              GetWord := copy (s,1,i-1); {gets word}
              delete (s,1,i-1);
           END:
     END; {function GetWord}
     FUNCTION GetLastWord (VAR s : string) : string;
     VAR
        i : integer; {index counter}
     BEGIN {function GetLastWord}
        IF (s = "") THEN
           GetLastWord := s
        ELSE
           BEGIN
              i := Length(s);
              WHILE (s[i] = ' ') DO
                 BEGIN {while loop}
                    delete (s,i,1); {removes trailing spaces}
                    i := i-1; {decrements index}
                 END; {while loop}
              WHILE NOT((s[i] = ' ') OR (i = 0)) DO
                 i := i-1; {decrements index}
        GetLastWord := copy (s,i+1,Length(s));
        delete (s,i+1,Length(s));
     END; {function GetLastWord}
     FUNCTION GetField (VAR s : string) : string;
```

```
VAR
             : integer;
                           {index counter}
         temp : string;
      BEGIN {function GetField}
         IF (s = '') THEN
            GetField := s
         ELSE
            BEGIN
                i := 1;
                WHILE (s[i] = ' ') DO {removes leading spaces}
                   delete (s,i,1);
                IF (s[i] = ';') THEN {identifies start of field}
                i := 2;
                WHILE ((s[i] = ' ') \text{ AND NOT } (i > \text{Length}(s))) \text{ DO}
                   delete (s,i,1); {deletes spaces between start and words of
field}
               WHILE NOT((s[i] = ';') OR (i > Length(s))) DO
                               {increments indx counter}
                   i := i+1;
               temp := copy (s, 1, i-1);
                i := Length(temp);
                delete (s,1,i); {removes the field from s}
               WHILE (temp[i] = ' '). DO
                   BEGIN {while loop}
                      delete (temp,i,1);
                      i := Length(temp);
                   END; {while loop}
               GetField := temp;
            END;
      END; {function GetField}
      PROCEDURE AssessmentReport (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         errcode,
         wia,
         kia,
         k killed,
         m killed,
         f killed
                     : integer;
         temp,
         temp1,
         temp2,
         temp3,
         temp4,
         uid,
         uid2,
         utm,
         dtg,
         dtg2,
         ctlr,
         msg,
         status,
         unittype
                    : string;
    BEGIN {procedure AssessmentReport}
         uid := GetField(s);
         msg := GetField(s);
```

```
utm := GetField(s);
          dtg := GetField(s);
          ctlr := GetField(s);
          temp := GetField(s);
          IF NOT((temp = ';') OR (temp = '; ') OR (temp = ''))
 THEN
             BEGIN
                delete (temp,1,1); {deletes ";"}
                IF (msg[Length(msg)] = ' ') THEN
                   msg := msg + temp
                ELSE
                   msg := msg + ' ' + temp;
             END; .
          REPEAT
             wia := 0;
             kia := 0;
             k_killed := 0;
            m killed := 0;
             f killed := 0;
             temp2 := '';
             temp3 := '';
             temp4 := '';
             status := ';';
            uid2 := ';';
            dtg2 := ';';
            unittype := ';';
            readln (infile, temp);
            temp1 := copy(temp,1,11);
            IF (temp = '') THEN
               {do nothing}
            ELSE IF (temp1 = 'PRINTED BY:') THEN
               exit
            ELSE IF (temp1 = 'No changes ') THEN
               BEGIN
                  status := ';' + temp;
                  write
(outfile,dtg,uid,utm,ctlr,rpt,msg,';',uid2,';',status,unittype);
                  writeln
(outfile,';;',wia,';',kia,';',k_killed,';',m_killed,';',f_killed,';;',dtg2);
               END
            ELSE
               BEGIN
                  IF (msg = ';Initial engagement:') THEN
                     BEGIN
                        uid2 := ';' + GetField(temp);
                        delete(temp, 2, 1); {removes space}
                        dtg2 := GetField(temp);
                     END
                  ELSE
                     BEGIN
                        temp1 := GetWord(temp);
                        IF (temp1 = 'NO') THEN
                           BEGIN
                               temp2 := copy(temp, 1, 11);
                               IF (temp2 = ' ASSESSMENT') THEN
                                 BEGIN
                                     status := ';' + temp1 + ' ' +
GetField(temp);
                                     delete(temp,1,1); {removes ";"}
                                    msg := msg + temp;
                                 END
```

```
END
                         ELSE IF (temp1 = 'CE PRODUCT') THEN
                            BEGIN
                               unittype := ';' + temp1;
                               delete(temp, 1, 1); {removes the space}
                               uid2 := ';' + GetField(temp);
                               delete(temp,1,3); {deletes ";
                               status := ';' + GetField(temp);
                            END
                         ELSE
                            BEGIN
                               IF ((temp1 = 'AIR') OR (temp1 = 'UNIT')) THEN
                                  BEGIN
                                     IF (temp1 = 'AIR') THEN
                                        temp2 := GetWord(temp); {removes "
MSN" }
                                     uid2 := ';' + GetField(temp);
                                     delete (temp,1,2); {removes "; "}
                                     unittype := ';' + GetWord(temp);
                                  END
                               ELSE
                                  unittype := ';' + temp1;
                               REPEAT
                                  temp3 := GetWord(temp);
                                  temp4 := GetWord(temp);
                                  IF (temp4[Length(temp4)] = ',') THEN
                                     delete (temp4, Length(temp4), 1); {removes
","}
                                  IF (temp4 = 'WIA') THEN
                                     val (temp3, wia, errcode);
                                  IF (temp4 = 'KIA') THEN
                                     val (temp3, kia, errcode);
                                  IF (temp4 = 'K KILLED') THEN
                                     val (temp3, k_killed, errcode);
                                  IF (temp4 = 'M KILLED') THEN
                                     val (temp3,m_killed,errcode);
                                  IF (temp4 = 'F_KILLED') THEN
                                     val (temp3, f_killed, errcode);
                               UNTIL ((temp = '') OR (temp = ' '));
                            END;
                     END;
                  write
(outfile,dtg,uid,utm,ctlr,rpt,msg,';',uid2,';',status,unittype);
                  writeln
(outfile,';;',wia,';',kia,';',k_killed,';',m_killed,';',f_killed,';;',dtg2);
               END;
         UNTIL (temp1 = 'PRINTED BY:');
      END; {procedure AssessmentReport}
      PROCEDURE UnitMove (rpt : string; VAR s : string; VAR infile, outfile :
text);
      VAR
         temp, temp1, temp2,
         uid, utm, dtg,
         ctlr, msg, dtg2
                              : string;
     BEGIN {procedure UnitMove}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
```

```
ctlr := GetField(s);
          temp := GetField(s);
          temp1 := GetLastWord(temp);
         temp2 := GetLastWord(temp);
         dtg\bar{2} := ';';
         IF (temp2 = 'at') THEN
             BEGIN
                dtg2 := ';' + temp1;
               msg := temp;
               delete (msg,Length(msg),1); {removes extra space}
            END
         ELSE
            msg := temp + temp2 + ' ' + temp1;
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg,';;;;;;;;;;;;,dtg2);
      END; {procedure UnitMove}
      PROCEDURE ShipMove (rpt : string; VAR s : string; VAR infile, outfile :
text);
      VAR
         uid, utm, dtg,
         ctlr, msg
                         : string;
      BEGIN {procedure ShipMove}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procedure ShipMove}
      PROCEDURE AirRtePoint (rpt : string; VAR s : string; VAR infile, outfile
: text);
         uid, utm, dtg,
         ctlr, msg
                         : string;
      BEGIN {procedure AirRtePoint}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procedure AirRtePoint}
      PROCEDURE AirMsnLaunch (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
        uid, utm, dtg,
        ctlr, msg
                         : string;
      BEGIN {procedure AirMsnLaunch}
        uid := GetField(s);
        utm := GetField(s);
```

```
dtg := GetField(s);
         ctlr := GetField(s);
         msq := GetField(s);
         readln (infile);
         writeln (outfile,dtq,uid,utm,ctlr,rpt,msg);
      END; {procedure AirMsnLaunch}
      PROCEDURE AirWpnLnch (rpt : string; VAR s : string; VAR infile, outfile
: text);
      VAR
         uid, utm, dtg,
         ctlr, msg
      BEGIN {procedure AirWpnLnch}
       uid := GetField(s);
        utm := GetField(s);
         dta := GetField(s);
         ctlr := GetField(s);
        msg := GetField(s);
       readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procedure AirWpnLnch}
      PROCEDURE AirTrkData (rpt : string; VAR s : string; VAR infile, outfile
: text);
      VAR
         uid, utm, dtg,
         ctlr, msg, temp,
         track, uid2, utm2, status : string;
      BEGIN {procedure AirTrkData}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         temp := GetField(s);
        msg := GetWord(temp) + ' ' + GetWord(temp);
         track := ';' + GetWord(temp);
        uid2 := ';' + GetWord(temp);
        delete (uid2,2,1); {removes "(")
        delete (uid2,Length(uid2),1); {removes ")"}
        msg := msg + ' ' + GetWord(temp);
         utm2 := ';' + GetLastWord(temp);
         temp := GetField(s);
         status := ';' + GetLastWord(temp);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg,track,uid2,utm2,status);
      END; {procedure AirTrkData}
      PROCEDURE AircraftStat (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         num,
                              {error code}
         errcode,
         undamaged,
                               {not mission capable}
         destroyed : integer;
```

```
uid, utm, dtg,
          ctlr, msg,
         temp1, temp2, track,
         uid2, utm2, status : string;
      BEGIN {procedure AircraftStat}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         undamaged := -1;
         nmc := -1;
         destroyed := -1;
         WHILE NOT(s = '') DO
            BEGIN {while loop}
               temp1 := GetField(s);
               temp2 := GetLastWord(temp1);
               val(temp2, num, errcode);
               temp2 := GetLastWord(temp1);
               IF (temp2 = 'UNDAMAGED:') THEN
                  undamaged := num
               ELSE IF (temp2 = 'CAPABLE:') THEN
                  nmc := num
               ELSE IF (temp2 = ';DESTROYED:') THEN
                  destroyed := num;
            END; {while loop}
         readln (infile);
         writeln
(outfile,dtg,uid,utm,ctlr,rpt,';;;;;;;;;;;',undamaged,';',nmc,';',destroyed)
      END; {procedure AircraftStat}
      PROCEDURE AirMsnIlluminated (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msq
                         : string;
      BEGIN {procedure AirMsnIlluminated}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         readln (infile);
         writeln (outfile, dtg, uid, utm, ctlr, rpt, msg);
      END; {procedure AirMsnIlluminated}
      PROCEDURE FireMsnWarning (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg
                         : string;
      BEGIN {procedure FireMsnWarning}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
```

```
msg := GetField(s);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procuedre FireMsnWarning}
      PROCEDURE FireMsnCanx (rpt : string; VAR s : string; VAR infile, outfile
: text);
      VAR
         uid, utm, dtg,
         ctlr, msq
                         : string;
      BEGIN {procedure FireMsnCanx}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
        msg := GetField(s);
         readln (infile);
         writeln (outfile, dtg, uid, utm, ctlr, rpt, msg);
      END; {procuedre FireMsnCanx}
      PROCEDURE FireMsnBegin (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg
                        : string;
      BEGIN {procedure FireMsnBegin}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procuedre FireMsnBegin}
      PROCEDURE FireMsnComplete (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg
                         : string;
      BEGIN {procedure FireMsnComplete}
         uid := GetField(s);
         utm := GetField(s);
         dtq := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         readln (infile);
         writeln (outfile, dtg, uid, utm, ctlr, rpt, msg);
      END; {procuedre FireMsnComplete}
      PROCEDURE FireMsnPrep (rpt : string; VAR s : string; VAR infile, outfile
: text);
      VAR
         uid, utm, dtg,
```

```
ctlr, msg
                         : string;
      BEGIN {procedure FireMsnPrep}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msq := GetField(s);
         readln (infile);
         writeln (outfile, dtg, uid, utm, ctlr, rpt, msg);
      END; {procuedre FireMsnPrep}
      PROCEDURE UnitCasualtyLimit (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg
                         : string;
      BEGIN {procedure UnitCasualtyLimit}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
       msg := GetField(s);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procuedre UnitCasualtyLimit}
      PROCEDURE StatusChange (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg
                         : string;
      BEGIN {procedure StatusChange}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         readln (infile);
         writeln (outfile, dtg, uid, utm, ctlr, rpt, msg);
      END; {procuedre StatusChange}
      PROCEDURE AirMsnBingo (rpt : string; VAR s : string; VAR infile, outfile
: text);
      VAR
         uid, utm, dtg,
         ctlr, msg
                         : string;
      BEGIN {procedure AirMsnBingo}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         readln (infile);
```

```
writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procuedre AirMsnBingo}
      PROCEDURE AirMsnFuel (rpt : string; VAR s : string; VAR infile, outfile
: text);
      VAR
         uid, utm, dtg,
         ctlr, msg
                         : string;
      BEGIN {procedure AirMsnFuel}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procuedre AirMsnFuel}
      PROCEDURE AirMsnRtb (rpt : string; VAR s : string; VAR infile, outfile :
text);
      VAR
         uid, utm, dtg,
         ctlr, msg
                        : string;
      BEGIN {procedure AirMsnRtb}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procuedre AirMsnRtb}
      PROCEDURE AirMsnPreCanx (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg
                         : string;
      BEGIN {procedure AirMsnPreCanx}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
        msg := GetField(s);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procuedre AirMsnPreCanx}
      PROCEDURE AirMsnWarning (rpt : string; VAR s : string; VAR infile,
outfile : text);
         uid, utm, dtg,
                         : string;
         ctlr, msg
```

```
BEGIN {procedure AirMsnWarning}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procuedre AirMsnWarning}
      PROCEDURE AirMsnCanx (rpt : string; VAR s : string; VAR infile, outfile
: text);
      VAR
         uid, utm, dtg,
         ctlr, msq
                         : string;
      BEGIN {procedure AirMsnCanx}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procuedre AirMsnCanx}
      PROCEDURE AirMsnStat (rpt : string; VAR s : string; VAR infile, outfile
: text);
      VAR
         uid, utm, dtg,
         ctlr, msg
                         : string;
      BEGIN {procedure AirMsnStat}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procuedre AirMsnStat}
      PROCEDURE RationStatus (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msq
                        : string;
      BEGIN {procedure RationStatus}
        uid := GetField(s);
        utm := GetField(s);
        dtg := GetField(s);
        ctlr := GetField(s);
        msg := GetField(s);
        readln (infile);
        writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
     END; {procuedre RationStatus}
```

```
PROCEDURE AdEngageEnd (rpt : string; VAR s : string; VAR infile, outfile
: text);
      VAR
         uid, utm, dtg,
         ctlr, msg,
         uid2, status
                           : string;
      BEGIN {procedure AdEngageEnd}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         uid2 := ';' + GetLastWord(msg);
         status := GetField(s);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg,';',uid2,';',status);
      END; {procuedre AdEngageEnd}
      PROCEDURE AdEngageStart (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg, temp,
         track, status,
         uid2, utm2 : string;
      BEGIN {procedure AdEngageStart}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         utm2 := ';' + GetLastWord(msg);
         temp := GetLastWord(msg);
         uid2 := ';' + GetLastWord(msg);
         delete (uid2,2,1);
         delete (uid2, Length (uid2), 1);
         track := ';' + GetLastWord(msg);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg,track,uid2,utm2);
      END; {procuedre AdEngageStart}
      PROCEDURE AdEngageNotify (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg,
         temp
                        : string;
      BEGIN {procedure AdEngageNotify}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         readln (infile, temp);
         IF (temp = '') THEN
            readln (infile, temp);
```

```
msg := ';' + temp;
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procuedre AdEngageNotify}
      PROCEDURE EngagementStatusChange (rpt : string; VAR s : string; VAR
infile, outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg,
         temp, uid2,
         status
                   : string;
      BEGIN {procedure EngagementStatusChange}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         temp := GetLastWord(msg);
         IF (temp = 'DESTROYED.') THEN
            BEGIN
               status := ';' + GetLastWord(msg) + ' ' + temp;
               temp := GetLastWord(msg);
               delete (status, Length(status), 1); {removes the extra period}
            END
         ELSE
            status := ';';
         uid2 := temp;
         temp := GetLastWord(msg);
         WHILE NOT((temp = 'WITH') OR (temp = 'BY')) DO
            BEGIN {while loop}
               uid2 := temp + ' ' + uid2;
               temp := GetLastWord(msg);
            END; {while loop}
         uid2 := ';' + uid2;
         IF (uid2[Length(uid2)] = ',') THEN
            delete (uid2,Length(uid2),1); {removes extra comma}
         IF (msg[Length(msg)] = ' ') THEN
            delete (msg,Length(msg),1); {removes extra space}
         readln (infile);
        writeln (outfile,dtg,uid,utm,ctlr,rpt,msg,';',uid2,';',status);
     END; {procuedre EngagementStatusChange}
     PROCEDURE ObjectDetect (rpt : string; VAR s : string; VAR infile,
outfile : text);
     VAR
         uid, utm, dtg,
        ctlr, msg, temp,
        status, utm2 : string;
     BEGIN {procedure ObjectDetect}
        utm := '';
        msg := '';
        temp := '';
        status := '';
        uid := GetField(s);
        utm := GetField(s);
        dtg := GetField(s);
```

```
ctlr := GetField(s);
         msq := GetField(s);
         utm2 := ';' + GetLastWord(msg);
         temp := GetLastWord(msg);
         readln (infile);
         temp := GetLastWord(msg);
         IF (temp[Length(temp)] = ']') THEN
            BEGIN
               status := GetLastWord(msg) + ' ' + temp;
               status := ';' + GetLastWord(msg) + ' ' + status;
               delete (status, Length(status), 1);
               temp := GetLastWord(msg);
               IF (msg[Length(msg)] = ' ') THEN
                  delete (msg,Length(msg),1); {deletes extra space}
            END
         ELSE
            msg := msg + temp;
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg,';;',utm2,status);
      END; {procuedre ObjectDetect}
      PROCEDURE UnitDestination (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg
                      : string;
      BEGIN {procedure UnitDestination}
         uid := GetField(s);
        utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
         readln (infile);
      END; {procuedre UnitDestination}
      PROCEDURE CargoLoad (rpt : string; VAR s : string; VAR infile, outfile :
text);
      VÁR
         uid, utm, dtg,
         ctlr, msg, uid2 : string;
      BEGIN {procedure CargoLoad}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         uid2 := ';' + GetLastWord(msg);
         delete(msg, Length(msg), 1); {removes extra space}
         writeln (outfile, dtg, uid, utm, ctlr, rpt, msg, ';', uid2);
         readln (infile);
      END; {procuedre CargoLoad}
      PROCEDURE FireMissionPrep (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
```

```
ctlr, msg
                        : string;
      BEGIN {procedure FireMissionPrep}
         uid := GetField(s);
         utm := GetField(s);
         dtq := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
         readln (infile);
      END; {procuedre FireMissionPrep}
      PROCEDURE UnitDefensiveMission (rpt : string; VAR s : string; VAR
infile, outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg
                        : string;
      BEGIN {procedure UnitDefensiveMission}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msq := GetField(s);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
         readln (infile);
      END; {procuedre UnitDefensiveMission}
      PROCEDURE VisualDetect (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg, utm2,
         unittype, uid2,
         numofunit,
         track, temp1,
         temp2, temp3
                            : string;
      BEGIN {procedure VisualDetect}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         track := ';' + GetLastWord(msg);
         temp1 := GetLastWord(msg); {removes " TRACK "}
         utm2 := ';' + GetLastWord(msg);
         delete (utm2,Length(utm2),1); {removes ","}
         temp1 := GetlastWord(msg); {removes " AT "}
         readln (infile,temp2);
         IF (temp2 = '') THEN
            readln (infile, temp2);
         delete (temp2,1,2); {removes ", "}
         uid2 := ';' + GetWord(temp2);
         delete (uid2,2,3); {removes "ID="}
         IF (msg[Length(msg)] = ' ') THEN
         delete(msg,Length(msg),1); {removes extra space}
IF ((temp2 = '') OR (temp2 = '')) THEN
            writeln (outfile,dtg,uid,utm,ctlr,rpt,msg,track,uid2,utm2);
```

```
WHILE NOT((temp2 = '') OR (temp2 = ';') OR (temp2 = '') OR (temp2 =
'; ')) DO
            BEGIN {while loop}
               temp3 := GetField(temp2);
               unittype := ';' + GetWord(temp3);
               IF (unittype[2] = ';') THEN
                  delete (unittype, 2, 1);
               numofunit := ';' + GetWord(temp3);
               writeln
(outfile,dtg,uid,utm,ctlr,rpt,msg,track,uid2,utm2,';',unittype,numofunit);
            END; {while loop}
         readln (infile);
      END; {procuedre VisualDetect}
      PROCEDURE VisualDetectChange (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg, utm2,
         unittype, uid2,
         numofunit,
         track, temp1,
         temp2, temp3
                          : string;
      BEGIN {procedure VisualDetectChange}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         temp1 := GetField(s);
         track := ';' + GetLastWord(temp1);
         temp2 := GetLastWord(temp1); {removes " TRACK "}
         temp2 := GetWord(temp1);
         temp3 := GetWord(temp1);
         utm2 := ';' + GetWord(temp1);
        msg := temp2 + temp1;
        delete (msg,Length(msg)-1,2); {removes ", "}
        readln (infile, temp2);
IF (temp2 = '') THEN
            readln (infile,temp2);
        delete (temp2,1,2); {removes ", "}
        uid2 := ';' + GetWord(temp2);
        delete (uid2,2,3); {removes "ID="}
         IF ((temp2 = '') OR (temp2 = '')) THEN
            writeln (outfile,dtg,uid,utm,ctlr,rpt,msg,track,uid2,utm2);
        WHILE NOT((temp2 = '') OR (temp2 = ';') OR (temp2 = '; ') OR (temp2 =
 ')) DO
            BEGIN {while loop}
               temp3 := GetField(temp2);
               unittype := ';' + GetWord(temp3);
               IF (unittype[2] = ';') THEN
                  delete (unittype, 2, 1);
               numofunit := ';' + GetWord(temp3);
               writeln
(outfile, dtg, uid, utm, ctlr, rpt, msg, track, uid2, utm2, ';', unittype, numofunit);
            END; {while loop}
        readln (infile);
     END; {procuedre VisualDetectChange}
```

```
PROCEDURE VisualDetectStatus (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg, utm2,
         uid2, track,
         temp1, temp2,
         temp3, unittype,
         numofunit
                          : string;
      BEGIN {procedure VisualDetectStatus}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         temp1 := GetField(s);
         track := ';' + GetLastWord(temp1);
         temp2 := GetLastWord(temp1); {removes " TRACK "}
         temp2 := GetWord(temp1);
         temp3 := GetWord(temp1); {removes " AT"}
         utm2 := ';' + GetWord(temp1);
        msg := temp2 + temp1;
         delete (msg,Length(msg)-1,2); {removes ", "}
         readln (infile, temp2);
         IF (temp2 = '') THEN
            readln (infile,temp2);
         delete (temp2,1,2); {removes ", "}
         uid2 := ';' + GetWord(temp2);
         delete (uid2,2,3); {removes "ID="}
         IF ((temp2 = '') OR (temp2 = '')) THEN
            writeln (outfile,dtg,uid,utm,ctlr,rpt,msg,track,uid2,utm2);
         WHILE NOT((temp2 = '') OR (temp2 = ';') OR (temp2 = ';') OR (temp2 =
' ')) DO
            BEGIN {while loop}
               temp3 := GetField(temp2);
               unittype := ';' + GetWord(temp3);
               IF (unittype[2] = ';') THEN
                  delete (unittype, 2, 1);
               numofunit := ';' + GetWord(temp3);
               writeln
(outfile,dtg,uid,utm,ctlr,rpt,msg,track,uid2,utm2,';',unittype,numofunit);
            END; {while loop}
         readln (infile);
      END; {procuedre VisualDetectStatus}
      PROCEDURE AuralDetect (rpt : string; VAR s : string; VAR infile, outfile
: text);
      VAR
         uid, utm, dtg,
         ctlr, msg,
         track, temp1 : string;
      BEGIN {procedure AuralDetect}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
```

```
track := ';' + GetLastWord(msg);
         temp1 := GetLastWord(msg); {removes " TRACK "}
         delete (msg,Length(msg)-1,2); {removes ", "}
         readln (infile);
         writeln (outfile, dtg, uid, utm, ctlr, rpt, msg, track);
      END; {procuedre AuralDetect}
      PROCEDURE Report (rpt : string; VAR s : string; VAR infile, outfile :
text);
      VAR
         errcode,
         wia,
         kia,
         k killed,
         m killed,
         f killed
                     : integer;
         temp,
         temp1,
         temp2,
         temp3,
         temp4,
         uid,
         uid2,
         utm,
         dtg,
         dtg2,
         ctlr,
         msg,
         status,
         unittype
                  : string;
      BEGIN {procedure Report}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := ';';
         REPEAT
            wia := 0;
            kia := 0;
            k killed := 0;
            m killed := 0;
            f killed := 0;
            temp2 := '';
            status := ';';
            uid2 := ';';
            dtg2 := ';';
            unittype := ';';
            readln (infile, temp);
            temp1 := copy(temp,1,11);
            IF (temp = '') THEN
               {do nothing}
            ELSE IF (temp1 = 'PRINTED BY:') THEN
               exit
            ELSE IF (temp1 = 'Initial eng') THEN
               msg := ';Initial engagement:'
            ELSE IF (temp1 = 'Cumulative ') THEN
               msg := ';Cumulative losses:'
            ELSE IF (temp1 = 'Incremental') THEN
```

```
msg := ';Incremental losses:'
             ELSE IF (temp1 = 'No changes ') THEN
                BEGIN
                   msg := ';' + temp;
                   write
 (outfile,dtg,uid,utm,ctlr,rpt,msg,';',uid2,';',status,unittype);
                   writeln
 (outfile,';;',wia,';',kia,';',k_killed,';',m_killed,';',f_killed,';;;',dtg2);
                END
             ELSE
                BEGIN
                   IF (msg = ';Initial engagement:') THEN
                      BEGIN
                         uid2 := ';' + GetField(temp);
                         delete(temp,2,1); {removes space}
                         dtg2 := GetField(temp);
                      END
                   ELSE
                      BEGIN
                         temp1 := GetWord(temp);
                         IF (temp1 = 'NO') THEN
                            BEGIN
                               temp2 := copy(temp,1,11);
                               IF (temp2 = 'ASSESSMENT') THEN
                                  BEGIN
                                     status := ';' + temp1 + ' ' +
GetField(temp);
                                     delete(temp,1,1); {removes ";"}
                                     status := status + ' ' + temp;
                                  END
                            END
                         ELSE IF (temp1 = 'CE_PRODUCT') THEN
                            BEGIN
                               unittype := ';' + temp1;
                               delete(temp,1,1); {removes the space}
                               uid2 := ';' + GetField(temp);
                               delete(temp,1,3); {deletes ";
                               status := ';' + GetField(temp);
                            END
                        ELSE
                           BEGIN
                               IF ((temp1 = 'AIR') OR (temp1 = 'UNIT')) THEN
                                  BEGIN
                                     IF (temp1 = 'AIR') THEN
                                        temp2 := GetWord(temp); {removes "
MSN"}
                                     uid2 := ';' + GetField(temp);
                                     delete (temp,1,2); {removes "; "}
                                     unittype := ';' + GetWord(temp);
                                  END
                               ELSE
                                  unittype := ';' + temp1;
                               REPEAT
                                  temp3 := GetWord(temp);
                                  temp4 := GetWord(temp);
                                  IF (temp4[Length(temp4)] = ',') THEN
                                     delete (temp4,Length(temp4),1); {removes
","}
                                  IF (temp4 = 'WIA') THEN
                                     val (temp3, wia, errcode);
                                  IF (temp4 = 'KIA') THEN
```

```
val (temp3, kia, errcode);
                                   IF (temp4 = 'K KILLED') THEN
                                      val (temp3, \overline{k} killed, errcode);
                                   IF (temp4 = 'M \overline{KILLED'}) THEN
                                      val (temp3, m killed, errcode);
                                   IF (temp4 = 'F \overline{KILLED'}) THEN
                                      val (temp3, f killed, errcode);
                                UNTIL ((temp = '') OR (temp = ' '));
                            END;
                      END;
                   write
(outfile,dtg,uid,utm,ctlr,rpt,msg,';',uid2,';',status,unittype);
                   writeln
(outfile,';;',wia,';',kia,';',k killed,';',m killed,';',f killed,';;;',dtg2);
                END;
         UNTIL (temp1 = 'PRINTED BY:');
      END; {procedure Report}
      PROCEDURE StsBarrier (rpt : string; VAR s : string; VAR infile, outfile
: text);
      VAR
         uid, utm, dtg,
         ctlr, msg : string;
      BEGIN {procedure StsBarrier}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procuedre StsBarrier}
      PROCEDURE UnitBarrierStatus (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg
                          : string;
      BEGIN {procedure UnitBarrierStatus}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procuedre UnitBarrierStatus}
      PROCEDURE TransportLoad (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msq,
         temp, uid2
                         : string;
```

```
BEGIN {procedure TransportLoad}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         temp := GetLastWord(msg);
         uid2 := '';
         REPEAT
            IF (uid2 = "") THEN
               uid2 := temp
               uid2 := temp + ' ' + uid2;
            temp := GetLastWord(msg);
         UNTIL ((temp = 'UNIT') OR (msg = ''));
         uid2 := ';' + uid2;
         msg := msg + temp;
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg,';',uid2);
      END; {procuedre TransportLoad}
      PROCEDURE TransportUnload (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg,
         temp, uid2
                       : string;
      BEGIN {procedure TransportUnload}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         temp := GetLastWord(msg);
         uid2 := '';
         REPEAT
            IF (uid2 = '') THEN
               uid2 := temp
               uid2 := temp + ' ' + uid2;
            temp := GetLastWord(msg);
         UNTIL ((temp = 'UNIT') OR (msg = ''));
         uid2 := ';' + uid2;
         msg := msg + temp;
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg,';',uid2);
      END; {procuedre TransportUnload}
      PROCEDURE UnitFormation (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg
                         : string;
      BEGIN {procedure UnitFormation}
         uid := GetField(s);
         utm := GetField(s);
```

```
dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procuedre UnitFormation}
      PROCEDURE UnitDestruction (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg
                        : string;
      BEGIN {procedure UnitDestruction}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
        msg := GetField(s);
        readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
     END; {procuedre UnitDestruction}
      PROCEDURE UnitMount (rpt : string; VAR s : string; VAR infile, outfile :
text);
      VAR
        uid, utm, dtg,
         ctlr, msg
                        : string;
      BEGIN {procedure UnitMount}
        uid := GetField(s);
        utm := GetField(s);
        dtg := GetField(s);
        ctlr := GetField(s);
        msg := GetField(s);
        readln (infile);
        writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procuedre UnitMount}
     PROCEDURE CeOpsStart (rpt : string; VAR s : string; VAR infile, outfile
: text);
     VAR
        uid, utm, dtg,
        ctlr, msg, uid2 : string;
     BEGIN {procedure CeOpsStart}
        uid := GetField(s);
        utm := GetField(s);
        dtg := GetField(s);
        ctlr := GetField(s);
        msg := GetField(s);
        uid2 := ';' + GetLastWord(msg);
        IF (msg[Length(msg)] = ' ') THEN
            delete (msg,Length(msg),1); {deletes extra space}
        readln (infile);
        writeln (outfile,dtg,uid,utm,ctlr,rpt,msg,';',uid2);
      END; {procuedre CeOpsStart}
```

```
PROCEDURE CeOpsStatChg (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg, uid2 : string;
      BEGIN {procedure CeOpsStatChg}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         uid2 := ';' + GetLastWord(msg);
         IF (msg[Length(msg)] = ' ') THEN
            delete (msg,Lèngth(msg),1); {deletes extra space}
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg,';',uid2);
      END; {procuedre CeOpsStatChg}
      PROCEDURE AirMsnTot (rpt : string; VAR s : string; VAR infile, outfile :
text);
      VAR
         uid, utm, dtg,
         ctlr, msg
                         : string;
      BEGIN {procedure AirMsnTot}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msq := GetField(s);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procuedre AirMsnTot}
      PROCEDURE UnknownField (rpt , s : string; VAR infile, dumpfile : text);
      VAR
         temp : string;
      BEGIN {procedure UnknownField}
           IF ((s = '')) OR (s = '')) THEN
              writeln (dumpfile,rpt)
           ELSE
              writeln (dumpfile,rpt + s);
           REPEAT
              readln (infile,s);
              temp := copy (s, 1, 11);
              writeln (dumpfile,s);
         UNTIL (temp = 'PRINTED BY:');
         readln (infile);
         writeln (dumpfile);
      END; {procedure UnkownField}
      PROCEDURE UnitOffensiveMission (rpt : string; VAR s : string; VAR
infile, outfile : text);
      VAR
         uid, utm, dtg,
```

```
ctlr, msg
                    : string;
      BEGIN {procedure UnitOffensiveMission}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msg := GetField(s);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procedure UnitOffensiveMission}
      PROCEDURE UnitMountStatus (rpt : string; VAR s : string; VAR infile,
outfile : text);
      VAR
         uid, utm, dtg,
         ctlr, msg
                        : string;
      BEGIN {procedure UnitMountStatus}
         uid := GetField(s);
         utm := GetField(s);
         dtg := GetField(s);
         ctlr := GetField(s);
         msq := GetField(s);
         readln (infile);
         writeln (outfile,dtg,uid,utm,ctlr,rpt,msg);
      END; {procedure UnitMountStatus}
   BEGIN {procedure ParseTheFile}
      WHILE NOT(eof(inFile)) DO
      BEGIN {while loop}
         readln (infile, s);
         field := GetField(s);
         IF (field = '; ASSESSMENT REPORT') THEN
AssessmentReport(field, s, infile, outfile)
         ELSE IF (field = ';UNIT MOVE') THEN UnitMove(field,s,infile,outfile)
         ELSE IF (field = ';SHIP MOVE') THEN ShipMove(field,s,infile,outfile)
         ELSE IF (field = ';AIR RTE POINT') THEN
AirRtePoint (field, s, infile, outfile)
         ELSE IF (field = ';AIR MSN LAUNCH') THEN
AirMsnLaunch(field, s, infile, outfile)
         ELSE IF (field = '; AIR WPN LNCH') THEN
AirWpnLnch(field, s, infile, outfile)
         ELSE IF (field = '; AIR TRK DATA') THEN
AirTrkData(field, s, infile, outfile)
         ELSE IF (field = '; AIRCRAFT STAT') THEN
AircraftStat(field, s, infile, outfile)
         ELSE IF (field = '; FIRE MSN WARNING') THEN
FireMsnWarning(field, s, infile, outfile)
         ELSE IF (field = ';FIRE MSN CANX') THEN
FireMsnCanx(field, s, infile, outfile)
         ELSE IF (field = ';FIRE MSN BEGIN') THEN
FireMsnBegin(field,s,infile,outfile)
         ELSE IF (field = ';FIRE MSN COMPLETE') THEN
FireMsnComplete(field,s,infile,outfile)
         ELSE IF (field = ';FIRE MSN PREP') THEN
FireMsnPrep(field, s, infile, outfile)
         ELSE IF (field = ';UNIT CASUALTY LIMIT') THEN
UnitCasualtyLimit(field,s,infile,outfile)
```

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ELSE IF (field = ';STATUS CHANGE') THEN
StatusChange(field, s, infile, outfile)
          ELSE IF (field = '; AIR MSN BINGO') THEN
AirMsnBingo(field, s, infile, outfile)
          ELSE IF (field = '; AIR MSN FUEL') THEN
AirMsnFuel(field, s, infile, outfile)
          ELSE IF (field = ';AIR MSN RTB') THEN
AirMsnRtb(field,s,infile,outfile)
          ELSE IF (field = '; AIR MSN PRE-CANX') THEN
AirMsnPreCanx(field, s, infile, outfile)
          ELSE IF (field = '; AIR MSN WARNING') THEN
AirMsnWarning(field,s,infile,outfile)
          ELSE IF (field = '; AIR MSN CANX') THEN
AirMsnCanx(field, s, infile, outfile)
          ELSE IF (field = '; AIR MSN STAT') THEN
AirMsnStat(field,s,infile,outfile)
          ELSE IF (field = '; AIR MSN ILLUMINATED') THEN
AirMsnIlluminated(field, s, infile, outfile)
         ELSE IF (field = '; RATION STATUS') THEN
RationStatus(field,s,infile,outfile)
         ELSE IF (field = '; AD ENGAGE END') THEN
AdEngageEnd(field, s, infile, outfile)
         ELSE IF (field = '; AD ENGAGE START') THEN
AdEngageStart(field, s, infile, outfile)
         ELSE IF (field = '; AD ENGAGE NOTIFY') THEN
AdEngageNotify(field, s, infile, outfile)
         ELSE IF (field = '; ENGAGEMENT STATUS CHANGE') THEN
EngagementStatusChange(field, s, infile, outfile)
         ELSE IF (field = ';OBJECT DETECT') THEN
ObjectDetect(field,s,infile,outfile)
         ELSE IF (field = ';UNIT DESTINATION') THEN
UnitDestination(field,s,infile,outfile)
         ELSE IF (field = '; CARGO LOAD') THEN
CargoLoad(field, s, infile, outfile)
         ELSE IF (field = ';FIRE MISSION PREP') THEN
FireMissionPrep(field,s,infile,outfile)
         ELSE IF (field = ';UNIT DEFENSIVE MISSION') THEN
UnitDefensiveMission(field,s,infile,outfile)
         ELSE IF (field = '; VISUAL DETECT') THEN
VisualDetect(field, s, infile, outfile)
         ELSE IF (field = '; VISUAL DETECT CHANGE') THEN
VisualDetectChange(field,s,infile,outfile)
         ELSE IF (field = '; VISUAL DETECT STATUS') THEN
VisualDetectStatus(field, s, infile, outfile)
         ELSE IF (field = '; AURAL DETECT') THEN
AuralDetect(field, s, infile, outfile)
         ELSE IF (field = ';REPORT') THEN Report(field,s,infile,outfile)
         ELSE IF (field = ';STS BARRIER') THEN
StsBarrier(field, s, infile, outfile)
         ELSE IF (field = ';UNIT BARRIER STATUS') THEN
UnitBarrierStatus(field,s,infile,outfile)
         ELSE IF (field = ';TRANSPORT LOAD') THEN
TransportLoad(field, s, infile, outfile)
         ELSE IF (field = ';TRANSPORT UNLOAD') THEN
TransportUnload(field,s,infile,outfile)
         ELSE IF (field = ';UNIT FORMATION') THEN
UnitFormation(field,s,infile,outfile)
         ELSE IF (field = ';UNIT DESTRUCTION') THEN
UnitDestruction(field,s,infile,outfile)
         ELSE IF (field = ';UNIT MOUNT') THEN
UnitMount(field, s, infile, outfile)
```

```
ELSE IF (field = ';CE OPS START') THEN
CeOpsStart(field, s, infile, outfile)
         ELSE IF (field = ';CE OPS Stat Chg') THEN
CeOpsStatChg(field, s, infile, outfile)
         ELSE IF (field = '; CE OPS STAT CHG') THEN
CeOpsStatChg(field, s, infile, outfile)
         ELSE IF (field = '; AIR MSN TOT') THEN
AirMsnTot(field,s,infile,outfile)
         ELSE IF (field = ';UNIT OFFENSIVE MISSION') THEN
UnitOffensiveMission(field,s,infile,outfile)
         ELSE IF (field = ';UNIT MOUNT STATUS') THEN
UnitMountStatus(field, s, infile, outfile)
         ELSE IF NOT (field = '') THEN
            BEGIN
               tmp := copy (field, 1, 7);
               IF NOT((tmp = '....') OR (tmp = 'PRINTED')) THEN
                  UnknownField(field, s, infile, dumpfile);
            END;
      END; {while loop}
   END; {procedure ParseTheFile}
   PROCEDURE CloseFiles (VAR infile, outfile, dumpfile : text);
   BEGIN {procedure CloseFiles}
      close (infile);
      close (outfile);
      close (dumpfile);
  END; {procedure Close Files}
BEGIN {main program}
   clrscr;
  writeln ('Spot Report Parser');
   writeln;
   OpenFiles (InFile, ParseFile, DumpFile);
   ParseTheFile (InFile, ParseFile, DumpFile);
   CloseFiles (InFile, ParseFile, DumpFile);
END. {main program}
```

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APPENDIX E – DATA ANALYSIS

A. DATA ANALYSIS SUMMARY

1. Data Analysis Summary

The data analysis summary is listed below in Table E1. The columns are self explanitory excepting the last four columns. Variants are listed in Appendix J. The Accuracy Score Avg was computed by totaling the accuracy scores for the entire performance trial. The Coord Score Avg was computed by counting the number of nodes participating in all the selected tasks listed below in each performance trial. The Accuracy Per Person was computed for each person within the team and then averaged over the entire team. The App Percentile is the Accuracy Per Person on a scale with the highest Accuracy Per Person score receiving 100% and on down the scale to 0%.

Run#	Date	Decision Maker	Operator	Variant	# of Nodes	Accuracy Score Avg	Coord Score Avg	Accuracy Per Person	App Percentile
1	2/23/99	J41	J43	V1	4	88.15%	1.8	48.97%	46.10%
2	2/24/99	J43	J42	V1	4	70.30%	1.4	50.21%	53.80%
3	2/24/99	J42	- J41	V2	4	88.15%	1.4	62.96%	84.60%
4	2/25/99	S41	J42	V2	4	93.75%	1.2	78.13%	100.00%
5	2/25/99	S42	J43	V2	4	93.75%	1.6	58.59%	76.90%
6	2/26/99	J61	J62	V3	6	79.96%	2	39.98%	0.00%
7	2/26/99	J62	J61	V4	6	81,22%	1.4	58.01%	69.20%
8	3/1/99	J62	J61	V1	6	86.82%	2	43.41%	7.60%
9	3/1/99	J61	J62	V2	6	86.82%	2	43.41%	7.60%
10	3/2/99	S61	J62	V2	6	90.63%	2	45.31%	30.70%
11	3/2/99	S61	J61	V3	6	84.34%	1.8	46.86%	38.40%
12	3/3/99	J42	J42	V3	4	78.58%	1.4	56.13%	61.50%
13	3/3/99	J41	J41	· V3	4	88.15%	2	44.08%	23.00%
14	3/3/99	J43	J43	V3	4	93.75%	1.4	66.96%	92.30%

Table E1. Data Analysis Summary

B. RESOURCE CAPABILITIES AND TASK REQUIREMENTS TABLES

These tables, E2 and E3, are subsets of the tables prepared by the A2C2 Research Team listed in the introduction. The complete tables can be found in Robert Benson's Masters Thesis from 1998 entitled Conduct and Assessment of A2C2 Experiment 3 and Guidelines for Future Experimentation.

Resource Capabilities

Asset	AAW	ASUW	ASW	GASLT	FIRES	ARMR	HOLD	MINE	MED
CAS	1	3	0	0	10	8	0	1	0
DDG	10	10	1	0	9	5	0	0	0
ENG	0	0	0	2	0	0	2	5	0
INF	1	0	0	10	2	2	10	1	0

Task Requirements

Hill	0	0	0	이	14	12]	0	0	0
Beach	0	0	0	10	14	12	0	0	0
Airport	0	0	0	20	10	4	이	0	0
Seaport	0	0	0	20	10	4	o	이	0
Bridge	0	0	0	8	6	0	0	4	0

Table E2 and E3. Resource Capabilities and Task Requirements

The following are the complete data analysis spreadsheets developed in Excel. These spreadsheets are then totalled in Table E1 above.

C. RUN 1 – 2-23-99_J41J43_V1

2-23-99_J41J43_V1

		Ass	rts Used		1		
Objective	CAS	SHIP	INF	ENG	# of Controllers	Accuracy Score	Coordination Score
North Beach	BCAS3		INF_H/B INF_A/B		2	100.00%	2.00
HI	PCAS1 PCAS2 PCAS3		INF_H/B INF_A/B INF_A/P INF_H/P		2	100.00%	2.00
Airport	BCAS2		INF_H/B		1	100.00%	1.00
Seaport			INF_A/P INF_H/B		2	72.00%	2.00
Bridge	PCAS6			ENG	2	68.75%	2.00
							9.00
						88.15%	1.80

Sum

N Beach	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
	INF	2	2	0.	0	20	4	4	20	2	0		
	CAS	1	-	3	0	0	10	8	0	1	0		
	DDG	0	0	0	0	0	0	0	0	0	0		
	ENG	0.	0	0	0	7 0	0	0	0	0	0		
	Force	Total, r=	3	3	0	20	14	12	20	3	0	Nonzeros, n =	3
1	Required	Power, R _i =	0	0	0	10	14	12	0	0	0	1101120100,11	Π.
•		Adjusted r _i =	NA.	ne	ne ne	10	14	12	na	na	na		_
		r/R,=	0	0	0	1	1	1	0	0	0		
		[r/R,]*=	0	0.	0	1	1	1	0	0	0		
		$\Sigma [r/R_i]^2 =$	3										
	(1/n)	*Σ[r/R _i]²=	1	=Accuracy									

Hill	Unit	Qiy	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px	
	INF	4	4	0	0	40	8	8	40	4	0	ĺ
	CAS	3	3	9	0	0	30	24	0	3	0	
	DDG	0	0	0	0	0	0	0	0	0	0	
	ENG	0	0	0	0	0	0	0	. 0	0	0	
	Force	Total, r=	7	9	0	40	38	32	40	7	0	Nonzeros, n = 3
	Required	i Power, R₁=	0	0	0	10	14	12	Ó	0	0	1401128105, 11 - 3
		Adjusted r _i =	na	na	na .	10	14	12	na	na	· na	
		r/R _i =	0	0	0	1	1	1	0	0	0	
		[r/R _i]'=	0	0	0	1	1	1	0	0	0	1
		Σ[r/R _i] ² =	3									
	(1/n)*[r/R,]2=	1	*Accuracy								

Airport	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px	
	INF	2	2	0	0	20	4	1	20	2	0	
	CAS			3	0	0	10	8	0	1	0	
	DDG	0	- 0	0	0	0	0	0	0	0	0	
	ENG	0	0	0	0	0	0	0	0	0	0	
	Force	Total, r≖	3	3	0	20	, 14	12	20	3	0	Nonzeros, n =
	Required	Power, R _i =	0	0	0	20	10	4	0	0	0	1401226103, 11 -
		Adjusted r, =	na	na	na	20	10	4	na -	nat	na	
		r/R,=	0	0	0	1	1	1	0	0	0	
		[r/R _i]*=	0	0	0	1	1	1	0	0	0	
		Σ[r/R _i]'=	3									•
	(1/n)	$\Sigma [r/R_1]^2 =$	1	=Accuracy								

Seaport	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px	•	
-	INF	2	2	0 - 1	0	20	4	4	20	2	0	1	
	CAS	0	0	0	0	0	0	0	0	0	0	1	
	DDG	0	0	0	0.	0	0	0	0	0	0	1	
	ENG	0	0	0	0 -	0	0	. 0	0	0	0		
	ForceT	otal, r=	2	0	.0	20	4	4	20	2	0	Nonzeros, n ≖	I
	Required	Power, R _i =	0	0	Ó	20	10	4	0	0	0	1401228103, 11 -	
	A	djusted r _i =	na	na l	na.	20	4	.4	na	na	กล		
		r/R,=	0	0	0	1	0.4	1	0	0	0	i	
		[r/R _i]*=	0	0	0	1	0.16	1	0	0	0	1	
		$\Sigma[r/R_i]^2 =$	2.16									•	
	(1/n)	$\Sigma [r/R_i]^2 =$	0.72	=Accuracy									

Bridge	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Py	MED Py		
	INF	0	0	0	0	0	0	1 0	0	0		1	
	CAS	1	1	3	0	0	10	8			0	1	
	DDG	0	0	0	0	1 0 1	0	 	<u> </u>		~ ~	l .	
	ENG	1	0	0	0	2		- 		<u> </u>		ł	
	Force	Total, r=	1	3	^		- 40			,	U ,	L	
							10	8	2	6	0		_
	Kequired	Power, R₁=	0	1 0 1	0	8	6	0	0	4	0	Nonzeros, n =	3
		Adjusted r, =	กล	na	na	2		na	na				
		r/R,=		0				144	£168		na na	i	
		L 1				0.25	1	0	0	1	0	i	
		[r/R _i]*=	0	0	0	0.0625	1	0	0			ł	
		$\sum [r/R_i]^2 =$							لــــــــــــا				
	(1/n)	$\Sigma[r/R_i]^2 =$	0.6875	=Accuracy									

D. RUN 2 – 2-24-99_J42J41_V2 2-24-99_J42J41_V2

		Asse	ts Used		7		
Objective	CAS	SHIP	INF	ENG	# or Controllers	Accuracy Score	Coordination Score
North Beach			INF_H/B	T	1	34.94%	1.00
Hill			INF_H/P INF_A/P INF_H/B		2	47.79%	2.00
Airport ·	PCAS4 PCAS5 PCAS7		INF_H/P INF_A/P		1	100.00%	1.00
Seaport	BCAS7		INF_A/B		2	100.00%	2.00
Bridge	FCAS21 FCAS22			ENG	1	68.75%	1.00
						70.30%	7.00 1.40

N Beach	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
	INF	1 1	1	0	0	10	2	1 2 1	10	1			
	CAS	0	0	0	0	0	0	1	n	- i -	<u> </u>		
	DDG	0	0	0		- 0	<u> </u>	1 6 1	- 	_ ~			
	ENG	0	0	 	- a	 	- 0	 			- 0	•	
	Enmail	and an					U	1 0	Ů		0		
		Total, r=	1	0 1	O	10	2	2	10	1	0		1
	Required	Power, R _i =	0 ·	0	0	10	14	12	0	0	-	Nonzeros, n = 3	1
	/	$djusted r_i =$	na	na	na	10	2	2	na	na	na		J
		r/R,=		0	0	1	0.142857143	0.166667	0	0	-	_	
		[r/R,]*=		0	0	1	0.020408163	0.027778	0	0	-	-	
		Σ[r/R _i] ² =				<u> </u>		1					
	(1/n)	Σ[r/R,)*=	0.349395	=Accuracy									

HIII	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
	INF	3	3	0	0	30	6	T 6	30	3	0		
	CAS	0	0	0	0	0	0	0	0	- ō	- 0		
	DDG	0	0	0	0	0	0	0	ŏ	ō	- i -		
	ENG -	0	0	0	0	0	0	0	ō	Ö			
	ForceT	otal, r=	3	0	0	30	6	6	30	3			_
	Required	Power, R,=	Ó	0	0	10	14	12	0	- 6 -		Nonzeros, n =	3
	A	djusted r. =	na	na	na	10	6	6	— <u> </u>		_		\perp
						10			na	na	na		
		r/R _i =		0	0	1	0.428571429	0.5	0	0	0		
		[1/R,]*=		0	0	1	0.183673469	0.25	0	0	0		
		$\Sigma[r/R_i]^2 =$	1.433673				·						
	(1/n)*	Σ[r/R _i] ² =	0.477891	=Accuracy									

irport	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px	
	INF	2	2	0	0	20	4	4	20	2	0	
	CAS	3	3	9	0	0	30	24	0	3	-	
	DDG	0	0	0	0	0	0	- 6	0	Ö	Ö	
	ENG	0	0	0	0	0	0	0	0	ō		
		otal, r=	5	9	0	20	34	28	20	- 5	0	
	Required	Power, R _i =	0	0	0	20	10	4	0	0	0	Nonzeros, n =
		djusted r, =	na	na	na	20	10	4	na	na	na	
		r/R _i =	0	0	0	1	1	1 1	0			
		[r/R _i]'=	0	0	0	1 1	1	+	0	- 	- 6	
		Σ[1/R,]=	3									
	(1/n)	$\Sigma [r/R_i]^2 =$		=Accuracy								

Seaport	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
	INF	2	2	0	0	20	4	4	20	2	0		
	CAS	1		3	0	0	10	8	0	1	0		
	DDG	0	0	0	0 .	0	0	0	0	0	0		
	ENG	0	0	0	0	0	0	0	0	0	0		
	ForceT	otal, r=	3	3	0	20	14	12	20	3	0	Nonzeros, n =	3
	Required	Power, R _i =	0	0	0	20	10	4	0	0	0	1101225100, 11	للـــــــــــــــــــــــــــــــــــــ
	. A	djusted r _i =	na	na	na	20	10	4	na	na	na		-
		r/R,=	0	0	0	1	1	1	0	0	0		
		[i/R _i]*=	0	0	0	1	1	1	0	0	0		
		$\Sigma [r/R_i]^2 =$	3										
		'Σ[r/R _i]²=		=Accuracy									
	(1/n)	'Σ [r/R _i]²=	1	=Accuracy				·					
Bridge	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px		HOLD Px		MED Px		
Bridge	Unit INF	Qty	AAW Px	ASUW Px	0	1 0 1	0	0	0	0	0		
Bridge	Unit INF	Qty 0	AAW Px	ASUW Px	0	0	0 20	0 16	0	0 2	0		
Bridge	Unit INF CAS DDG	Qty	AAW Px 0 2	ASUW Px	0 0 0	0	0 20 0	16 0	0	0 2 0	0		
Bridge	Unit INF CAS DDG ENG	Qty 0 2 0	AAW Px 0 - 2 0 0	ASUW Px 0 6 0 0	0 0 0	0 0 0 2	0 20 0 0	0 16 0	0 0 0 2	0 2 0 5	0		
Bridge	Unit INF CAS DDG ENG	Qty 0	AAW Px 0 2	ASUW Px 0 6 0 0 0 6 1	0 0 0 0	0 0 0 2 2	0 20 0 0 20	0 16 0 0	0 0 0 2 2	0 2 0 5 7	0 0 0	Nonzeros, n =	
Bridge	Unit INF CAS DDG ENG ForceT	Qty 0 2 0	AAW Px 0 2 0 0	ASUW Px 0 6 0 0	0 0 0	0 0 0 2 2 2 8	0 20 0 0 20 6	0 16 0	0 0 2 2 0	0 2 0 5 7	0 0 0	Nonzeros, n =	3
Bridge	Unit INF CAS DOG ENG ForceT Required	Qty 0 2 0 1	AAW Px 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ASUW Px 0 6 0 0 0 6 1	0 0 0 0	0 0 0 2 2	0 20 0 0 20	0 16 0 0	0 0 0 2 2	0 2 0 5 7	0 0 0	Nonzeros, n =]3
Bridge	Unit INF CAS DOG ENG ForceT Required	Qty 0 2 0 1 1 otal, r = Power, R _i =	AAW Px 0 2 0 0 2 0 2	ASUW Px 0 6 0 0 0 6 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 2 2 2 8	0 20 0 0 20 6	0 16 0 0 16	0 0 2 2 0	0 2 0 5 7	0 0 0 0 0 0 0 na	Nonzeros, n =	3
Bridge	Unit INF CAS DOG ENG ForceT Required	Qty 0 2 0 1 otal, r= Power, R _i =	AAW Px 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ASUW Px 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 2 2 2 8	0 20 0 0 20 6 6	0 16 0 0 16 0	0 0 2 2 2 0 na	0 2 0 5 7 4	0 0 0 0 0 0	Nonzeros, n =]3
Bridge	Unit INF CAS DOG ENG ForceT Required	Qty 0 2 0 1 otal, r= Power, R _i = djusted r _i = r/R _i =	AAW Px 0 2 0 0 2 0 na 0	ASUW Px 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 na	0 0 0 2 2 2 8 2 0.25	0 20 0 0 20 6 6	0 16 0 0 16 0 na	0 0 2 2 0 na 0	0 2 0 5 7 4 4	0 0 0 0 0 0 0 na	Nonzeros, n =	3

E. RUN 3 - 2-24-99_J43J42_V1

		Asse	ts Used		٠ .		
Objective	CAS	SHIP	INF	ENG	# of Controllers	Accuracy Score	Coordination Score
North Beach	BCAS3 BCAS4		INF_H/B INF_A/B		1	100.00%	1.00
Hitl	BCAS1 BCAS2	,	INF_H/B		1	100.00%	1.00
Airport	PCAS5 PCAS6 PCAS8 PCAS9		INF_H/P		1	100.00%	1.00
Seaport			INF_A/B		2	72.00%	2.00
Bridge	FCAS8			ENG	2	68.75%	2.00
							7.00
						88.15%	1.40

Unit Qty AAW Px ASUW Px ASW Px

FIRES PX ARMR PX HOLD PX MINE PX MED PX

	0	2	20	4	4	20	0	0	2	2	INF
	0	2	0	16	20	0	0	6	2	2	CAS
	. 0	0	0	0	0	0	0	0	0	0	DDG
	0	0	0	0	0	0	0	0	0	0	ENG
Nonzeros, n =	0	4	20	20	24	20	0	6	4	otal, r=	ForceT
140120100,11	0	0	0	12	14	10	0 .	0	0	Power, R _i =	Required
	na	na	na	12	14	10	na	na	na	Adjusted r, =	
	0	0	0	1	1	1	0	0	0	r/R,=	
	. 0	0	0	1	1	1	0	0	0	[r/R,]*=	
•							· · · · · · · · · · · · · · · · · · ·		3	$\Sigma [r/R_i]^2 =$	
								=Accuracy	1	*Σ[r/R _i]*=	(1/n)
	MED Py	MINE Dy	HOLD BY	ARMR Pv	FIRES Py	GASLTPY	ASW DV	ASIRV D	I AAW P~	- 06/	l Init
	MED DV	MINE D	HOI D D	ADMP D	EIDES D	GASITE	ASW DV	ASI DA/ D~	L AAM/ Dv	1 75	l bait
			HOLD Px		FIRES Px	GASLT Px	ASW Px	ASUW Px		Qty	Unit
	MED Px	MINE Px	HOLD Px	ARMR Px	4	GASLT Px	ASW Px	0	2	2	Unit INF CAS
	0	2	20	4		20	0				INF
	0	2	20 0	4 16	4 20	20	0	6	2	2	CAS
Newson a	0	2 2 0	20 0 0	16 0	4 20 0	20 0	0	6 0	2 2 0	2 0	DDG ENG
Nonzeros, n =	0 0	2 2 0	20 0 0	4 16 0	4 20 0	20 0 0	0 0 0	6 0 0	2 2 0 0 4	2 2 0	INF CAS DDG ENG Force
Nonzeros, n =	0 0 0 0	2 2 0 0	20 0 0 0 20	4 16 0 0 20	4 20 0 0 24	20 0 0 0 0 20	0 0 0	0 6 0 0	2 2 0 0 4 0	2 0 0 fotal, r=	INF CAS DDG ENG Force1
Nonzeros, n =	0 0 0	2 2 0 0 4 0	20 0 0 0 20	4 16 0 0 20 12	4 20 0 0 24 14	20 0 0 0 0 20	0 0 0 0 0	0 6 0 0 6	2 2 0 0 4 0	2 2 0 0 (otal, r= Power, R _i =	INF CAS DDG ENG Force1
Nonzeros, n =	0 0 0 0 0	2 2 0 0 4 0	20 0 0 0 20 0 na	4 16 0 0 20 12 12	4 20 0 0 24 14	20 0 0 0 20 10	0 0 0 0 0 0 0	0 6 0 0 6 0	2 2 0 0 4 0 na 0	2 0 0 Total, r= Power, R _i =	INF CAS DDG ENG Force1
Nonzeros, n =	0 0 0 0 0 0 0 0	2 2 0 0 4 0 na 0	20 0 0 0 20 0 na 0	4 16 0 0 20 12 12	4 20 0 0 24 14 14	20 0 0 0 20 10 10	0 0 0 0 0 0 0	0 6 0 0 6 0 na	2 2 0 0 4 0 na 0	2 0 0 fotal, r= Power, R _i = Adjusted r _i =	INF CAS DDG ENG Force1

GASLT Px

Seaport Unit City AAW PX ASUW PX ASW PX CASLT PX FIRES PX ARMR PX HOLD PX MINE PX MED PX	Airport	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ADMD D	HOLDE	MINE D.	MED D.		
CAS		INF											1	
DDS			4	4	12	0								
ENG			0	0	0	0								
ForceTotal, r = 6 12 0 20 44 36 20 6 0 Nonzeros, n = 3		ENG	0	0	0	0	0			_				
Required Power, R ₁ = 0 0 0 0 20 10 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Force	Total, r=	6	12	0	20	44				1		_
Adjusted f,		Required	Power, R,=	0	0	0		I					Nonzeros, n =	3
I I I O O O O O O O			Adjusted r, =	na	na		1							لـلـٰـ
If			r/R _i =	0	0	0	+				L			
Seaport Unit City AAW PX ASUW PX ASW PX GASLT PX FIRES PX ARMR PX HOLD PX MINE PX MED PX			[r/R,]'=	0	0	0	1	I			1			
Unit			$\Sigma[r/R_i]^2 =$	3	i		.1		<u> </u>		<u> </u>			
Note		(1/n))*Σ[r/R,]²=	1	=Accuracy									
Note	Seanort	Linit	C Obc	L AAVA/ Dv	ACIDA/ Du	ACM D.	040177							
CAS	ocupon													
DDG														
ENG 0			_											
ForceTotal, r =		ENG		_	_	-								
Required Power, R _i = 0 0 0 0 20 10 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		ForceT	otal.r=							1				
Adjusted Γ ₁ =		Required	Power, R,=	0	0	0	4					1	Nonzeros, n =	3
F/R ₁ = 0		-	djusted r =	na	na	na	20						· · · · · · · · · · · · · · · · · · ·	
[r/R ₁] ² = 0 0 0 0 1 0.16 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			r/R,≃	0	0	0	1							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			[r/R _i]*=	0	0	0	1 1							
Bridge Unit City AAW Px ASW Px GASLT Px FIRES Px ARMR Px HOLD Px MINE Px MED Px INF 0 0 0 0 0 0 0 0 0 CAS 1 1 3 0 0 10 8 0 1 0 DBG 0 <td< td=""><td></td><td></td><td>$\Sigma [r/R_i]^2 =$</td><td>2.16</td><td></td><td></td><td>ــــــــــــــــــــــــــــــــــــــ</td><td></td><td><u>.t</u></td><td></td><td></td><td></td><td></td><td></td></td<>			$\Sigma [r/R_i]^2 =$	2.16			ــــــــــــــــــــــــــــــــــــــ		<u>.t</u>					
INF 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		(1/n)	$\Sigma [r/R_i]^2 =$	0.72	=Accuracy									
INF 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				*****					·					
CAS 1 1 3 0 0 10 8 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	Bridge								ARMR Px	HOLD Px	MINE Px	MED Px		
DDG 0 0 0 0 0 0 0 0 0			-	- 0						-		0		
ENG 1 0 0 0 2 0 0 2 5 0 0 ForceTotal, r= 1 3 0 2 10 8 2 6 0 Nonzeros, n = 3 Required Power, R _i = 0 0 0 0 8 6 0 0 4 0 Nonzeros, n = 3 Adjusted r _i = na na na 2 6 na na 4 na r/R _i = 0 0 0 0 0.25 1 0 0 1 0 \[\begin{array}{c c c c c c c c c c c c c c c c c c c				1			1 1			1				
ForceTotal, r= 1 3 0 2 10 8 2 6 0 Required Power, R _i = 0 0 0 8 6 0 0 4 0 Adjusted r _i = na na na 2 6 na na 4 na												_		
Required Power, R ₁ = 0 0 0 8 6 0 0 4 0 Nonzeros, n = 3 Adjusted r ₁ = na na na 2 6 na na 4 na r/R ₁ = 0 0 0 0 0.25 1 0 0 1 0 r/R ₁ = 0 0 0 0 0.0625 1 0 0 1 0 r(r/R ₁ = 2.0625									4			الصفعا		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		L									_		Nonzeros, n =	3
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$													·	Ш
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$														
$\Sigma[r/R_i]^2 = 2.0625$						-								
							0.0020	 '		_ '	_ ' _	U		
					=Accuracy									

F. RUN 4 – 2-25-99_S41J42_V2

2-25-99_\$41J42_V2

		Asse	ts Used		7		
Objective	CAS	SHIP	INF	ENG	# of Controllers	Accuracy Score	Coordination Score
	BCAS3			T			
North Beach	BCAS4		INF_H/B	ł	1 1	100.00%	1.00
	BCAS1		INF_H/B	†			
Hill ,	BCAS2		INF_A/B	1	1	100.00%	1.00
	PCAS3		 	 	 		
	PCAS5		INF H/P	Į	1		
Airport	PCAS6		INF_A/P		1	100.00%	1.00
	BCAS10B						
Seaport	CAS11		INF_H/P	i	2	100.00%	2.00
Bridge	FCAS22			ENG		68.75%	1.00
	1 1		<u> </u>	<u> Lito</u>	<u> </u>	00.7576	1.00
							6.00
						93.75%	1.20

N Beach	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
	INF	1 "	1	0	0	10	2	1 2	10	1	0		
	CAS	2 -	2	6	0	0	20	16	0	2			
	DDG	0	0	0	0	0	0	1 0	ō	0			
	ENG	0	0	0	0	0	0	0	- 6	0	- i		
	ForceT		3	- 6	0	10	22	18	10	3	0		$\overline{}$
	Required I	Power, R _i ≂	0	0	0	10	14	12	0	0	0	Nonzeros, n =	3
	A	djusted r, =	na	na	na	10	14	12	na	na	na		ш
		r/R _i =	0	0	0	1	1	1	0	0	0		
		[r/R _i]*=	0	0	0	1	1	1	0	0	0		
		$\Sigma [r/R_1]^2 =$	3										
	(1/n)*	$\sum [r/R_i]^2 =$	1	=Accuracy									

Required Power, R;														
CAS 2 2 6 0 0 20 16 0 2 0 0 0 0 0 0 0 0	HIII	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
DIOS				2	, , ,			,						
ENG														
ForceTotal, T														
Required Power, R. 0														
Adjusted													Nonzeros, n =	3
Airport											<u> </u>			
			Adjusted r _i =	na							1			
Seaport	,		r/R _i =	0			_1				L	1		
Almort			[r/R,]*=	0	0	0 .	1	1	1	0	0	0		
Airport Linit Dily AAW Px ASW Px ASW Px GASLT Px FIRES Px ARMR Px HOLD Px MINE Px MED Px			$\Sigma[r/R_i]^2 =$	3		-								
Alimort Unit City AAW PX ASW PX ASW PX CASLT PX FIRES PX ARMR PX HOLD PX MINE PX MED PX		(1/n)	$\Sigma [r/R_i]^2 =$,1	=Accuracy									
NF														_
CAS 3 3 9 0 0 30 24 0 3 0 0 0 0 0 0 0 0	Airport		Qty	AAW Px	ASUW Px									
DDG														
ENS														
ForceTotal, r= 5														
Required Power, R _i = 0 0 0 0 20 10 4 0 0 0 0 Nonzeros, n = Adjusted r _i = na na na na 20 10 4 na na na na ra ra ra ra														_
Adjusted (=					<u> </u>						L		Nonzeros, n =	3
											_			
Seaport Unit City AAW Px ASUW Px ASW Px GASLT Px FIRES Px ARMR Px HOLD Px MINE Px MED Px						_					_			
Company Comp			[r/R _i]*=	0	0	0	1	1	1	0	0	0		
Unit			Σ[r/R,]'=	3		•								
Unit		(1/n)	*s[r/R.12=	1	=Accuracy									
CAS	Seaport	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px		MINE Px	MED Px		
DDG					- 1								•	
ENG														
ForceTotal, r = 3 3 0 20 14 12 20 3 0 Nonzeros, n = 3														
Required Power, R ₁ = 0 0 0 0 20 10 4 0 0 0 0 Nonzeros, n = S							-				_	1		_
Adjusted r, = na na na 20 10 4 na na na na ra r/R, = 0 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0											-	1 1	Nonzeros, n =	3
If If If If If If If If					<u> </u>		1 1					_		ᆚ
I							1 .							
Strick			r/R,=	0	0		1	1	1					
Bridge			[r/R,]*=	0	0	0	1	1	1	0	0	0		
Stridge			$\Sigma [r/R_i]^2 =$	3										
Bridge		(1/n)		1	=Accuracy									
INF														
CAS 1 1 3 0 0 10 8 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	Bridge													
DDG													•	
ForceTotal, r = 1 3 0 2 10 8 2 6 0 Nonzeros, n = 3 Required Power, R ₁ = 0 0 0 8 6 0 0 4 0 Adjusted r ₁ = na na na 2 6 na na 4 na r/R ₁ = 0 0 0 0 0.25 1 0 0 1 0 r/R ₁ = 0 0 0 0 0.625 1 0 0 1 0 r/R ₁ = 0 0 0 0 0.625 1 0 0 1 0 r/R ₁ = 2.0625														
ForceTotal, r = 1 3 0 2 10 8 2 6 0 Nonzeros, n = 3 Required Power, R _i = 0 0 0 8 6 0 0 4 0 Adjusted r _i = na na na 2 6 na na 4 na r _i = 0 0 0 0 0.25 1 0 0 1 0 [r/R _i = 0 0 0 0 0.0625 1 0 0 1 0 [r/R _i = 0 0 0 0 0.0625 1 0 0 1 0			1	-	0	0	2	0	0	2	5	 0 		
Required Power, R _i = 0 0 0 8 6 0 0 4 0 Adjusted r _i = na na na 2 6 na na 4 na r/R _i = 0 0 0 0.25 1 0 0 1 0 [r/R _i] = 0 0 0 0.0625 1 0 0 1 0 \[\Sigma[r/R_i] = 0 0 0 0 0.0625 1 0 0 1 0 \]		Force1	otal, r=	1	3	0	2	10	8	2	6	0	Negrose s =	T
Adjusted f, = na na na 2 6 na na 4 na f, R, = 0 0 0 0 0.25 1 0 0 1 0 0 1 0 0 0 0 0.0625 1 0 0 0 1 0 0 0 0 0 0.0625 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1						6	0			0	Nonzeros, n =	13
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$														
[r/R, f'= 0 0 0 0.0625 1 0 0 1 0 Σ[r/R, f'= 2.0625		<u> </u>		5			1						•	
Σ[1/R] = 2.0625														
		L				<u>_</u>	0.0025			<u> </u>	L			
		L	$\Sigma[i]R_i]'=$											

G. RUN 5 – 2-25-99_S42J43_V2

2-25-99_S42J43_V2

		Asse	s Used		7		
Objective	CAS	SHIP	INF	. ENG	# or Controllers	Accuracy Score	Coordination Score
North Beach	BCAS3 BCAS4		INF H/B		1	100.00%	1.00
Hill	BCAS1 BCAS2		INF_F/B		2	100.00%	2.00
•	FCAS7 PCAS4		INF_H/P				
Airport	PCAS9		INF_A/P		2	100.00%	2.00
Seaport	BCAS11 BCAS12		INF_A/B		2	100.00%	2.00
Bridge	FCAS6			ENG	1	68.75%	1.00
							8.00

N Beach	Unit	Chi	7 AAVA/ D.	ACIEN/ D	40445								
in Deach	INF	Qty	AAVV PX	ASUW Px	ASW Px	GASLT Px				MINE PX		_	
	CAS	 }	1 2	6	 	40	8	8 .	40	4	0]	
	DDG	1 0	0	 	1 8	1 6	20	16	0	0	0	1	
	ENG	0	j	1 0	Ö	 0 	1 0	 	+ + + + + + + + + + + + + + + + + + + +	1 6	1 - 6	4	
	Force	Total, r=	6	6	0	40	28	24	40				
		Power, R,=		1 0	0	10				6	0	Nonzeros, n ≃	13
			4				14	12	0	0	0		
	·	Adjusted r _i =	na	na	na	10	14	12	na	na	na		
	L	r/R,=	0	0	0	1	1	1	0	0	0	1	
	L	[r/R _i]*=	0	0	0	1	1	1	0	0	0	1	
		$\Sigma [\Gamma/R_i]^2 =$	3			· · · · · · · · · · · · · · · · · · ·			.1			J	
	(1 <i>h</i> n)°∑[r/R _i]²=	1	=Accuracy									
Hill	11-14											-	
MII	Unit	Qty 2	AAW PX	ASUW Px	ASW Px	GASLT Px	FIRES Px			MINE Px		_	
	CAS	1 - 2 -	 2 -	6	- 5	1 20	20	16	20	2	0	1	
•	DDG	-	-	0	0	 	20	1 10	0	2	0	4	
	ENG	0	0	Ö	ŏ	1 6	 	1 0	0	0	0	1	
	Force	Total, r=	4	6	0	20				0	0		
		Power, R,=	0	1			24	20	20	4	0	Nonzeros, n =	[;
			<u> </u>	0	0	10	14	12	0	0	0	110.20.00, 11	I.
	<u> </u>	Adjusted r _i ≈	na na	na	na	10	14	12	na	na	na		
	L	r/R,=	0	0	0	1	1	1	0	0	0	1	
		[r/R _i]'=	0	0	0	1	1	1 1	0	 	0	1	
		$\Sigma[r/R_i]^2 =$	3			لسنسك	<u> </u>]	
	/1/2	$\Sigma[r/R_i]^2 =$	1	=Accuracy									
	(1/1)	211/141 -	<u> </u>	-Accuracy									
Al- aut													_
Airport	Unit	Qty 2	AAW PX	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD PX	MINE Px	MED Px		
	CAS	3	3	0	0	20	4	4	20	2	0	ī	
	DDG	1 3	0	9	0	0	30	24	0	3	0	1	
	ENG	 	- 6	0	0	0	0	0	0	0	0	1	
		fotal, r=	5	9		0	0 -	0	0	0	0	Ī	
					0	20	34	28	20	5	0	Nonross	3
		Power, R _i ≃	0	0	0	20	10	4	0	0	0	Nonzeros, n =	13
		Adjusted r, =	na	na	na	20	10	4	na	na	na		
	1	r/R,=	0	0	0	1	1	1	0	0	0		
		[r/R,]*=	0	0	0	1	1	 1 	0	0	0	:	
		$\Sigma[r/R_i]^2 =$	3								L	· ·	
	(1/n)	*Σ[r/R _i]*=	1	=Accuracy									
	· · · · · ·	21.7.41.		7.000.009						•			
Seaport	Unit	Qty		ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px	•	
	CAS	2	2	6	0	20	4	4	20	2	0		
	DDG	6	6	- 6	0	0 1	20	16	0	2	0		
	ENG	 6	- 6	- 6	0	0	0	0	0	0	0		
		otal, r=	4	6	0	L - I	0	0	0	0	0		
			0			20	24	20	20	4	0	Nonzeros, n =	3
		Power, R₁=		0	0	20	10	4	0	0	0	140120100, 11 -	ľ
	^	djusted r, =	ną	na	na	20	10	4	na	na	na		•
	L	r,/R,=	0	0	0	1	1	1	. 0	0	0		
		[r/R,]*=	0	0	0	1	1	1	0	0	0		
	i —	$\Sigma[\Gamma/R_i]^2 =$	3			L		نسنسا	<u> </u>				
	(1/n)	Σ[r/R _i] ² =		=Accuracy									
							······································						
Bridge	Unit	Qty	AAW Px		ASW Px	GASLT Px	FIRES Px			MINE Px	MED Px		
	CAS	1 1	- 1	0 3	0	0	0	0	0	0	0		
	DDG	0	- 1	0	0	0	10	8	0	1	0		
	ENG		- 6 - 1	0	0	0	0	0	0	0	0		
		otal es				2	0	0	Z	5	0		_
	ForceT		1	3	0	2	10	8	2	6	0	Nonzeros, n =	3
		Power, R _i =	0	0	0	8	6	0	0	. 4	0	NUCLEUS, II =	J³
		diusted r. =	na	na	DQ								

H. RUN 6 – 2-26-99_J62J61_V4

2-26-99_J62J61_V4

				# of Accuracy Coordination									
Objective	CAS	SHIP	INF	ENG	# or Controllers	Score	Score						
	 	Γ.	INF_H/B										
			INF_A1/P										
			INF_A2/P		_								
North Beach			INF_H/P		2	59.03%	2.00	Į					
		1	INF_H/B	l 1		1							
	RCAS1 RCAS2	}	INF_A1/P					1					
e:m	RCAS2 RCAS3	1	INF_A2/P	1	3	100.00%	3.00	i					
Hill	RCASS	-	INF_H/P			100.00%	3.00	ł					
Airport	RCAS22	1	INF_A1/P		2	100.00%	2.00						
Hilport	NOASZZ	 	INF_AZ/P	ļ		100.0076	2.00	1					
Seaport		i	INF H/P	}	1	72.00%	1.00						
	RCAS12	1				12,0010		ł					
Bridge	RCAS15	į		ENG	2	68.75%	2.00	l					
		4	·			· ·		1					
							10.00	Sum					
						79.96%	2.00	Avg					
								•					
N Beach	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px		MINE Px	MED Px		
	INF	4	4	0	0	40	8	8	40	4	0		
	CAS	0	0	0	0	0	0	0	0	0	0		
	DDG	0	0	0	0	0	0	0	0	0	0		
	ENG	0	0	0	0	0	0	0	0	0	0		
	L	Total, r=	4	0	0	40	8	8	40	4	0	Nonzeros, n =	
	Required	Power, R _i =	0	0	0	10	14	12	0	0	0		į
		Adjusted r, =	na	na	na	10	8	8	na	na	na		_
		r/R _i =	0	0	0	1	0.571428571	0.666667	0	0	0		
		[r/R,]'=	0	0	0 .	1	0.326530612	0.444444	0.	0	0		
		$\sum [r/R_i]^2 =$	1.770975									•	
	(4.60)	$\Sigma[r/R_i]^2 =$	0.500335	-Accuracy									
	(1/11)	Still -	0.030020	-Accuracy									
	·												
Hill	Unit	Qty	1 AAW D	ASUW Px	ASW Px	GASLT Px	FIRES Px	ADMD D	HOLD Px	MINE Px	MED Px		
Little	INF	4	4	0	73417	40	8	8	40	4	0		
	CAS	3	3	ğ		- ~	30	24	0	3	0		
	DDG	 0	- 6 -	ö	ő	ŏ	0	0	0	0	. 6		
	ENG	i o	Ö	0	- 0	ō	Ö	ō	0	Ö	- 0	-	
		otal, r=	7	9	0	40	38	32	40	7	0		_
		•	0	0	0	10	14	12		- ; -	-	Nonzeros, n =	
		Power, R _i =					<u> </u>						
		Adjusted r, =	na	na	na	10	14	12	na	na	na		
		1/R,=	Ó	0	0	1	1	1 1	0	٥	0		

	MED Px	MINE Px	HOLD Px	ARMR Px	FIRES PX	GASLT Px	ASW Px	ASUW Px	AAW Px	Qty	Unit	Airport
	0	2	20	4	4	20	0	0	2	2	INF	
	0	2	0	16	20	0	0	6	2	2	CAS	
	0	0	0	0	0	0	0	0	0	0	DDG	
	0	0	0	0	0	0	0	0	0	0	ENG	
Nonzeros, n =	0	4	20	20	24	20	0	6	4	otal, r=	ForceT	
140126103, 11 -	0	0	0	4	10	20	0	0	0	Power, R _i =	Required	
	na	na	na	4	10	20	na	na	na	djusted r, =		
	0	0	0	1	1	1	0	0	0	r/R,=		
	0	0	0	1	1	1	0	0	0	[r/R,]*=		
									3	$\Sigma[r/R_i]^2 =$		
								=Accuracy		$\Sigma[r/R_i]^2 =$		

-	Unit	Qty		ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD PX	MINE PX	MED Px		
	INF	2	2	0.	0	20	4	1 4	20	2.			
	CAS	0	0	0	0	0	0	0	0	0	-		
	DDG	0	0	. 0	0	0	. 0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0		
		otal, r=	2	0	0	20	4	4	20	2	0		_
	Required	Power, R _i =	0	0	0	20	10	4	0	0	0	Nonzeros, n =	
	-	djusted r _i =	na	na	na	20	4	4	na	na	na		_
		r/R _i =	0	0	0	1 1	0.4	1	0	0	0		
		[r/R _i]*=	0	0	0	1 1	0.16	+ + +	-	0			
		$\Sigma[r/R_i]^2 =$	2.16	 		1	0.10				0		
Bridge		Έ[τ/R _i]²=		=Accuracy							 		
3rldge	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
Bridge	Unit	Qty 0	AAW Px	ASUW Px	0	0 1	0	1 0	HOLD Px	MINE Px	MED Px		
⊰ridge	Unit INF	Qty 0 2	AAW Px	ASUW Px	0	0	0 20	16	0	0 2			
Bridge	Unit	Qty 0	AAW Px 0 2 0	ASUW Px	0	0	0 20 0	16 0	0	0 2 0	0		
Bridge	Unit INF CAS DDG ENG	Qty 0 2 0	AAW Px 0 2 0 0	ASUW Px 0 6 0 0 0	0 0 0	0 0 0 2	0 20 0	16 0	0 0 0 2	0 2 0 5	0		
3ridge	Unit INF CAS DDG ENG ForceT	Qty 0 2 0 1 otal, r=	AAW Px 0 2 0 0	ASUW Px 0 6 0 0 0 6	0 0 0 0	0 0 0 2 2 2 2	0 20 0 0	0 16 0 0 16	0	0 2 0	0	Norross	_
Bridge	Unit INF CAS DDG ENG ForceT Required	Qity 0 2 0 1 1 1 1 1 1 1 1 1	AAW Px 0 2 0 0 0 2	ASUW Px 0 6 0 0 6	0 0 0 0 0	0 0 0 2	0 20 0	16 0	0 0 0 2	0 2 0 5	0	Nonzeros, n =	
Bridge	Unit INF CAS DDG ENG ForceT Required	Qty 0 2 0 1 1 otal, r= Power, R _i =	AAW Px 0 2 0 0 2 0 2 0	ASUW Px 0 6 0 0 0 6 0 na	0 0 0 0	0 0 0 2 2 2 2	0 20 0 0	0 16 0 0 16	0 0 0 2 2	0 2 0 5 7	0 0 0	Nonzeros, n =	
Bridge	Unit INF CAS DDG ENG ForceT Required	Qty 0 2 0 1 otal, r= Power, R _i = djusted r _i = r/R _i =	AAW Px 0 2 0 0 0 2	ASUW Px 0 6 0 0 6	0 0 0 0 0	0 0 0 2 2 2 8	0 20 0 0 20 6	16 0 0 16 0	0 0 0 2 2	0 2 0 5 7 4	0 0 0 0 0 0	Nonzeros, n =	_
Bridge	Unit INF CAS DDG ENG ForceT Required	Qty 0 2 0 1 1 otal, r= Power, R _i =	AAW Px 0 2 0 0 2 0 2 0	ASUW Px 0 6 0 0 0 6 0 na	0 0 0 0 0 0 0	0 0 0 2 2 2 8	0 20 0 0 20 6 6	16 0 0 16 0 16	0 0 0 2 2 2 0 na	0 2 0 5 7 4 4	0 0 0 0 0 0 0 0 na	Nonzeros, n ≃	
Bridge	Unit INF CAS DDG ENG ForceT Required	Qty 0 2 0 1 otal, r= Power, R _i = djusted r _i = r/R _i =	AAW Px 0 2 0 0 2 0 na 0	ASUW Px 0 6 0 0 6 0 na 0	0 0 0 0 0 0 0	0 0 0 2 2 8 2 0.25	0 20 0 0 20 6 6	16 0 0 16 0 16 na	0 0 0 2 2 2 0 na	0 2 0 5 7 4	0 0 0 0 0 0	Nonzeros, n =	

I. RUN 7 – 2-26-99_J61J62_V3

2-26-99_J61J62_V3

		Asse	ts Used		7		
Objective	CAS	SHIP	INF	ENG	# of Controllers	Accuracy Score	Coordination Score
North Beach	RCAS3		INF A1/P	T	2	80.97%	2.00
Hiu	RCAS1 RCAS2				1	100.00%	1.00
Airport			INF_H/P INF_A2/P		1	72.00%	1.00
Seaport	RCAS14		INF_FI/P INF_A1/P		2	100.00%	2.00
Bridge				ENG	1	53.13%	1.00
							7.00
						81.22%	1.40

N Beach	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
	INF	1	1	0 7	0	10	2	1 2	10	1 1	0	ī	
	CAS	1	1	3	0	0	10	8	0	1			
	DDG	0	0	0	0	0	0	0	ō	Ö	Ö	•	
	ENG	0	0	0	0	0	0	1 0	0	-	1 0		
		otal, r=	2	3	0	10	12	10	10	2	0		$\overline{}$
		Power, R,=		0	0	10	14	12	0	0	0	Nonzeros, n =	3
		$djusted r_i =$		na	па	10	12	10	na	na	na		لب
		r/R₁=		0	0	1	0.857142857	0.833333	0	0	0		
		[r/R,]*=		0	0	1	0.734693878	0.694444	0	0	0		
		Σ[r/R,] ² =	2.429138					<u> </u>			لــــــــــــــــــــــــــــــــــــــ		
	(1/n)	Σ[r/R,]'=	0.809713	=Accuracy									
Hill	4.4-14												
Fillt	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
	INF	0	. 0	0	0	0	0	0	0	0	0		
	CAS	2	2	6	0	0	20	16	0	2	0		

Hill	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
	INF	0	0	0	0	0	0	1 0	0	0	0 7		
	CAS	2	2	6	0	0	20	16	- 6		-		
	DDG	0	0	0	0	0		+ 70	- ~				
	ENG	0	- 0	0		+ +				U	0		
	F	-4-1		_			U		١٠١	0 7	0		
		otal, r=	2	1 6 1	0	0	20	16	0	2	0		$\neg \neg$
	Required	Power, R,≂	0	0	0	10	14	12	_			Nonzeros, n =	2
		djusted r =		 						U	0		-11
				กล	na	ļ na	14	12	na	na	na		
		r/R,=	0	0	0	0	1	1 1		-	0		
		[r/R, Y=	0	0									
					·	_ '	1	1 1	0	0	0		
	l	$\Sigma [r/R_i]^2 =$	2				· · · · · · · · · · · · · · · · · · ·						
	(1/n)°	Σ[η/R,]²=	1	=Accuracy									

Airport	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
	INF	2	2	0	0	20	4	4	20	2	0		
	CAS	0	0	0	0	0	0	0	0	0	0		
	DDG	0	0	0	0	0	0	0	0	0	0		
	ENG	0	0	0	0	0	0	0	0	0	0		
	ForceT	otal, r=	2	0	0	20	4	4	20	2	0	Nonzeros, n =	3
	Required	Power, R _i =	0	0	0	20	10	4	0	0	0		Ш
	A	djusted r _i =	na	na	na	20	4	4	na	na	na		
		r/R,=	0	0	0 .	1	0.4	1	0	0	0	3	
		[r/R _i]*=	0	0	0	1	0.16	1	0	0	0		
		$\Sigma [r/R_i]^2 =$	2.16										
	(1/n)	*Σ[r/R _i]*=	0.72	=Accuracy									
Seaport	Unit	Qiy	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px		MED Px		
•	INF	2	2.	1 0 1	0	20	4	4	20	2	0		
	CAS	1 ,	1	3	0	0	10	8	0	1	0		
	DDG	0	0	0	0	0	0	0	0	0	0		
	ENG	0	0	0	0	0	,O	0	0	0	0		
	ForceT	otal, r=	3	3	0	20	14	12	20	3	0	Nonzeros, n =	3
	Required	Power, R₁=	0	0	0	20	10	4	0	0	0	1101.20100,11	Ш
	A	djusted r, =	na	na	na	20	10	4	na .	na	na		
		r/R,=	0	0	0	`1	1 .	1	0	0	0		
		[r/R,]*=	0	0	0	1	1	1	0	0	0		
		$\Sigma [\Gamma/R_i]^2 =$	3										
		ε[r/R _i]²=		=Accuracy									
	,,,,	0. 7 .7		نـــــــــــــــــــــــــــــــــــــ									
D-14			4 4 14 Co.	ASUW Px	ASW Px	GASLT Px	FIRES Px	ADMD Ov	HOLD Px	MINE Px	MED Px		
Bridge	Unit	Qty	O O	ASUV PX	ASVV PX	GASLI PX	TINES FX	ARMIN FA	HOLD PX	WINEFA	MED FX		
	CAS	0	- 6	- 6 -	- ö	- 6	0 .	- 6	- 6	0	8		
	DDG	-	- 6		ŏ	 	0	- 6		- 6			
	ENG	─ Ť	- ö	- 6	Ö	2	,	1.0	2	5	-		
	1	otal,r=		0	ō	2	0	0	2	5	0	Name	
		Power, R,=	0	0	0	8	6	0	0	4	0	Nonzeros, n =	2
		diusted r. =	na	na l	ne	2	na	na	na	4	na		

J. RUN 8 – 3-1-99_J61J62_V2

3-1-99_J61J62_V2

		Asse	s Used		1		
Objective	CAS	SHIP	INF	ENG	# of Controllers	Accuracy Score	Coordination Score
North Beach	RCAS3		INF_A/1P	T	2	80.97%	2.00
	RCAS1		INF_A1/P INF_A2/P INF_H/B				
Hill	RCAS2		INF_H/P		3	100.00%	3.00
Airport	RCAS11		INF_AZ/P		2	100.00%	2.00
Seaport	RCAS16		INF_H/P		2	100.00%	2.00
Bridge				ENG	1	53.13%	1.00
						<u> </u>	10.00
						86.82%	2.00

N Beach	Unit	Qty	7 AAW D.	ASUW P	~ AC1A/ D-	CASITO	FIDEO D						
	INF	1 49	1 70 17	ASUVI	X ASW PX	GASLT Px			X HOLD PX			_	
	CAS	 	1 -	3	 0	1 70	10	8	10	1	0	_	
	DDG	0	0	1 0	 0	1 0	1 6	1 8	+ - 6	 	0	1	
	ENG	0	0	0	0	0	Ö	 0	1 0	 ŏ -	0		
	Force	Total, r=	2	3	0	10	12	10	10	2	-	 	
	Required	Power, R	= 0	0	0	10	14	12	0	0	 	Nonzeros, n =	3
		Adjusted r		na	na	10	12						
		r/R		0	0		1	10	na	na	na	1	
	ļ	[7/8]				1	0.857142857	0.83333		0	0		
			1	0	0	1	0.734693878	0.69444	0	0	0		
	L		2.429138										
	(1/n)*Σ[r/R _i]²:	= 0.809713	=Accurac	у								
									•				
HIII	1 4-24		-						······································			•	
43111	Unit	Qty 4		ASUW P		GASLT Px	FIRES Px	ARMR P	K HOLD PX	MINE Px	MED Px		
	CAS	 2	4 2	6	0	40	8	8	40	4	0		
	DDG	1 6	1 6	8	0	0	20	16	0	2	0	Ĭ	
	ENG	 	1 ŏ	0	1 0	 	0	0	0.	0	0		
	Force	Total, r=	6	6	1 0	40	28		0	0	0		
		Power, R.		1 -				24	40	6	0	Nonzeros, n =	3
					0	10	14	12	0	0	0		ا"ا
	<u> </u>	Adjusted r _i =		na	na	10	14	12	na	na	na		
		r/R _i =		0	0	1	1	1	0	0	0		
	L	[r/R _i]*=	- 0	0	0	1	1	1	0	0	0		
		$\Sigma [r/R_i]^2$	- 3					1	<u> </u>			!	
	(1/n)	"Σ[r/R,]"=	1	=Accurac	7								
					_								
			_										
Airport	Unit	Qty	AAW Px	ASUW PX	ASW Px	GASLT Px	FIRES Px	ARMR P	HOLD Px	MINE Px	MED Px		
	INF	2	2	0	0	20	4	4	20	2	0		
	DDG	1	1	3	0	0	10	8	0	7	0		
	ENG	0	0	0	0	0	0	0	0	0	0	,	
		otal.r=	3	0	0	0	0	0	0	0	0		
			I	3	0	20	14	12	20	3	0	Nonzeros, n =	
		Power, R _i =		0	0	20	10	4	0	0	0	Nonzeros, n =	3
		$djusted r_i =$	1	na	na	20	10	4	na	na	na		
		r/R,=	0	0	0	1	1	1	0	0	0		
		[r/R _i]*=	0	0	0	1	1	1	0	0	-	•	
		$\Sigma[r/R_i]^2 =$	3						<u></u>	لسنسا		•	
	(1/n)	Σ[r/R]'=	1	=Accuracy	1								
					•								
C	1.1-11												
Seaport	Unit	Qty		ASUW Px		GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
	CAS	1	1	0	0	20	4	4	20	2	0	•	
	DDG	- i -	- i	3	0	0	10	8	0	1 7	0		
	ENG	-	-	0	- ŏ	- 6	0	0	0	0	0		
	ForceT	otal, r=	3	3	0	20	14	12	20	0	0		
		Power, R,=	0	0	-	20				3	0	Nonzeros, n =	3
		djusted r. =	na	na			10	4	0	0	0		
					na	20	10	4	na	na	na		
		r/R _i =	0	0	0	1	. 1	1	0	0	0		
		[r/R,]=	0	0	0	1	1	1	0	0	0		
		$\Sigma [I/R_i]^2 =$	3										
	(1/n) ⁴	$\Sigma [r/R_i]^2 =$	1	=Accuracy									
					'								
Bul 3													
Bridge	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
	INF	0	0	Ų	0	0	0	0	0	0	0		
_	DDG	- ;- 	8	0	0	0	0	0	0	0	0		
-	ENG	- i -	- 6	- 6	0	0	0	0	0	0	0		
	ForceTo		- 6	- 6	- 0	2	0	0	2	5	0		_
	Required F		- 6	-		2	0	0	2	5	0	Nonzeros, n =	2
					0	8	6	0	0	4	0	. ror a.or 43, 11 -	^
	^ <u>^</u>	djusted r _i =	na	na	na	2	na	na	na	4	na		
	<u> </u>	r/R _i =	0	0	0	0.25	0	0	0	1	0		
	T	[r/R _i]*=	0	0	0	0.0625	0	0	0	1	0		
,		$\Sigma[r/R_i]^2 =$	1.0625										
	(1/n)*·	ε[r/R _i]²=	0.53125	=Accuracy									

K. RUN 9 – 3-1-99_J62J61_V1

3-1-99_J62J61_V1

CAS	Assets SHIP	INF	ENG	# of Controllers	Accura	- 1	dination core					
CAS3	-	NF H/B T		2	80.979		.00					
		NF_A1/P			+							
CAS1		NF_A2/P		2	100.00	% 2	.00					
CAS9		NF_H/P NF_A2/P		2	100.00	- 	.00					
CAS10	1	NF_H/P NF_A1/P		2	100.00		.00					
CAS12			ENG	2	53.139		.00					
					86.829	6 2		vg um				
N Beach	Unit	Qty	AAW Px		ASW Px	GASLT Px	FIRES Px	ARMR Px		MINE Px	MED Px	
	INF	1 1	1	0	0	10	2	2	10	1	0	
	DDG	1 0	1 0	3	0	0	10	8	0	- 1	0	
	ENG	1 6	 ö	 	0		0	1 6	8	- 6	0	
		Total, r≃	2	3	0	10	12	10	10	2	0	
		d Power, R,=	1	0	0	10	14	12	0	0	0	Nonzeros, n =
		Adjusted r _i =	I	na	na	10	12	10	na	na	na	
	-	r/R _i =		0	0	1	0.857142857	0.833333	0	0	. 0	
	 	[78,7]		 	0	1	0.734693878	0.694444	0	0	-	
	—		2.429138			<u> </u>	1	1				
	/1/	2 [r/R _i] ² =										· ·
	DDG ENG	2 0 0	2 0	6 0	0	40 0 0	20 0	16 0	4000	2 0	0	
		Total, r=	6	6	0	40	28	24	40	6	0	· · · · · · · · · · · · · · · · · · ·
		Power, R,=	0	0	0	10	14	12	0	0		Nonzeros, n =
	110400	Adjusted r. =		na	na	10	14	12	na	na	na	
		r/R,=		0	0	1	1	1	0	0	0	
		[r/R,]*=	I	0 1	0	1	1	1	0	0	0	
		Σ[r/R,]*=		 	1							
	(1/1)*Σ[r/R _i]*=		=Accuracy								
Airport	Unit INF CAS DDG ENG	Qly 2 1 0 0 0	2 1 0 0	ASUW Px /	ASW Px 0 0 0	GASLT Px 20 0 0	FIRES Px 4 10 0	ARMR Px	HOLD Px 20 0 0	MINE Px 2 1 0	MED Px	
		Total, r=	3	3	-	20	14	12	20	3	0	
		Power, R,=	L	0	ō	20	10	4	0	ō	-	Nonzeros, n =
		Adjusted r _i =		na	na	20	10	4	na	na	na	
;		r/R _i =		0	0	1	1	1 1	0	0	0	
		[r/R ₁]*=		0	0	1	1	1	-	0	-	
	—	$\Sigma[r/R_i]^2 =$					<u> </u>			لــــــــــــــــــــــــــــــــــــــ	لـــــَـــا	
	(1/r)*Σ[r/R,]*=		=Accuracy		•						
C	1 424	74.	1 44445	ACI BAI Co.	VOIN C:	040170	FIDEO D	40000				
Seaport	Unit	Qty 2	AAW PX	ASUW Px /	ASW Px	GASLT Px	FIRES Px	ARMR PX	HOLD Px	MINE Px	MED Px	
	CAS	1 1		3	- 6 - 1	0	10	8	-20	1	0	
	DDG	1 0	i	0	Ö	ŏ	0	0	- 6	- 6	-6	
	ENG	0	0	0	0	- 0	0	0	0	ō	0	
	Farm	Total an	3	3	0	20	14		20			
	Porce	Total, r=			1			12	20	3	0	Nonzeme n -
		Power, R _i =		0	0	20	10	4	0	0	0	Nonzeros, n =
	Require		0					.L	1			Nonzeros, n =
	Require	Power, R _i =	0 na	0	0	20	10	4	0	0	0	Nonzeros, n =

Bridge	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE, Px	MED Px		
	INF	0	0	0	0	0	0	0	0	0	0		
	CAS	0	0	0	0	0	0	1 0	Ö	Ŏ	- 6 - 		
	DDG	0	0	0	0	0	0	0	0	_ i _	- 6 -		
	ENG	1	0	0	0	2	0	1 0	2	5	- 6		
	ForceT	otal, r=	0	0	0	2	0	1	- 2	-			
		Power, R.=	0	 	0	 		+	- 2	3		Nonzeros, n =	2
						•	- 0		0	4	0		171
		djusted r, =	1	na	na .	2	na	na	na	4	na		
		r/R,≈	0	0	0	0.25	0	0	0	1	0		
		[r/R,]*=	0	0	0	0.0625	0	0	0		_		
		$\Sigma[r/R_i]^2$ =	1.0625			<u> </u>		للتبل		• 1			
	(1/n)			=Accuracy								•	

L. RUN 10 - 3-2-99_S61J61_V3

3-2-99_S61J61_V3

		Asse	ts Used		7		•
Objective	CAS	SHIP	INF	ENG	# of Controllers	Accuracy Score	Coordination Score
North Beach	RCAS3	DDG	INF_H/B		3	100.00%	3.00
Hill	RCAS1 RCAS2		INF_H/B		2	100.00%	2.00
Airport	RCAS12		INF_H/P		2	100.00%	2.00
Seaport	RCAS15		INF_R/P		2	100.00%	2.00
Bridge				ENG	1	53.13%	1.00
	,						10.00
						90 63%	200

Sum

N Beach	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
•	INF	2	2	0	0	20	4	1 4	20	2	0		
	CAS	1 1	1	3	0	0	10	8	0		- 0		
	DDG	1	10	10	1	0	9	5	- 0	0	- i -		
	ENG	0	0	0	0	0	0	- 0	ō	 i	- 0		
	Force	otal, r=	13	13	1	20	23	47					
	<u> </u>							17	20	3	0	Nonzeros, n =	12
	Required	Power, R _i ⇔	0	0 1	0	10	.14	12	0	0	0	reorizaros, n =	3
	, A	\djusted r _i ≈	na	na	na	10	14	12	na	na	na		
		r/R,=	0	0	0	1 1							
						1 '	<u>'</u>	1 1	۰	0 1	0 1		
	L	[r/R _i]*=	0	1 0 1	0	1 1 1	1	1	0	0	0		
		$\Sigma[r/R_i]^2 =$	3					<u> </u>					
	(1/n)	$\Sigma [r/R_i]^2 =$	1	=Accuracy									

łin	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px	
	INF	1		0	0	10	2	1 2	10	1	0	
	CAS	2 -	2	6	0	0	20	16	0			
	DDG	0	0	0	0	0	0	1 0	Ö	- -		
	ENG	0	0	0	0	0	0	0	- 6	0		
	ForceTo	otal, r=	3	6	0	10	22	18	10	3	0	
	Required F	ower, R _i =	0	0	0	10	14	12	0	0	-	Nonzeros, n =
	A	fjusted r, =	na	na	na	10	14	12	na	na	na	
		r/R _i =	0	0	0	1 1		1	0	- 0		
		[r/R _i]*=	0	0	0	1 1	1	+ + +	-0	-		
		ε[r/R _i]'=	3					<u> </u>				
		$\Sigma [r/R_i]^2 =$	1	=Accuracy								

Airport	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px		MINE Px			
	INF	2	2	0	0	20	4	4	20	2	0		
	CAS	1	1	3	0	0	10	8	0	1	0		
	DDG	0	0	0	0	0	0	0	0	0	0		
	ENG	٥	0	0	0	0	0	0	0	0	0		
		otal, r=	3	3	Ö	20	14	12	20	3	0	Nonzeros, n =	3
		Power, R _i =	1	0	0	20	10	4	0	0	0	<u>, , , , , , , , , , , , , , , , , , , </u>	
	-	\djusted r₁ =		na	na	20	10	4	na	na	na		
		r/R,=	0	0	0	1	1	1	0	0	0		
		[r/R,]'=	0	0	· 0	1	1	1	0	0	0		
		Σ[1/R,]=	3										
	(1/n)	$\Sigma [r/R_i]^2 =$	1	=Accuracy									
	· · · · · ·			نـــــــــــــــــــــــــــــــــــــ	ļi								
Seaport	Unit	Qty		ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px			MED Px		
	CAS	2	2	0 3	0	20	10	4 8	20	2	0		
	DDG	1	0	1 3 1	- 0	1 0 1	10	 	- 0	0	-		
	ENG	- 6	0		- 0	1 - 8 - 1		+ - 6 -		- 6			
			3	3	0	20	14	12	20	3	0		_
		otal, r=				I I	10					Nonzeros, n =	3
		Power, R₁=		0	0	20		4	0	0			
	A	djusted r _i =	na	na	na	20	10	4	na	na	na		
		r/R₁≃		0	0	1	1	1	0	0	0		
		[r/R,]*=	0	0	0	1	. 1	1	0	0	0		
		$\Sigma[r/R_i]^2 =$	3										
	(1/n)	'Σ[r/R _i]'=	1	=Accuracy									
Bridge	Unit	Qty		ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px			MED Px		
	CAS	0	0 0	0	0	0	0	8	0	0	0		
	DDG	- 6	0	- 6 -		 		1 -6 -1	- 6 -	0			
	ENG	1	- 6	- 6	- ö -	 <u>2</u> 	- 6	1 6	$\frac{3}{2}$	5	- 6		
	ForceT		 	0	- 6	2	0	 	2	5	- 6		_
		Power, R,=			0	1 8	6	1 6	-	4	-	Nonzeros, n =	2
			na	na	na	- 2	na	na	na	4	na l		Д.
	^	djusted r _i =		0	0 0	0.25			0				
		r/R _i =	0	<u> </u>			0	0		1	0		
	نـــــا	[r/R _i]*=	0 1,0625	0	0	0.0625	. 0	0	0	1	0		
		$\sum [r/R_i]^2 =$ $\sum [r/R_i]^2 =$		=Accuracy									

M. RUN 11 – 3-2-99_S61J62_V2

3-2-99_S61J62_V2

Objective CAS	SHIP	INF		# OT	ACCUPACY	Coordination
	31111	1141	ENG	Controllers	Score	Score
North Beach RCAS3		INF_A1/P	T	2	80.97%	2.00
HIII RCAST		INF_H/B		2	100.00%	2.00
Airport RCAS9		INF_AZ/P		2	100.00%	2.00
Seaport		INF_A1/P		1	72.00%	1.00
Bridge RCAST	2	 	ENG	2	68.75%	2.00

Sum

N Beach	Unit	Qty	AAW P	ASUW P	x ASW Px	GASLT Px	FIRES Px	APMP D	HOLD Px	MINE D.	MEDID		
	INF	1	1	0	0	1 10	7 1KES FX	2	10000	MINE PX	MED Px	1	
	CAS	1	1	3	0	0	10	1 8	0	l i −	1 - 6 -		
	DDG	0	0	0	0	0	0	0	ō	Ö	0		
	ENG	0	0	0	0	0	0	0	0	0	0		
		Total, r=	2	3	0	10	12	10	10	. 2	0	Name	
		Power, R _i :	_1	0	0	10	14	12	0	0	0	Nonzeros, n =	3
		Adjusted r _i =		na	na	10	12	10	na	na	na		
		r/R _i =		0	0	1	0.857142857	0.833333	0	0	0		
		[r/R,]*=		0	0	1	0.734693878	0.694444	0	0	0		
		$\Sigma[r/R_i]^2$	2.429138						·			ł	
	(1/n)	°Σ[r/R,]²=	0.809713	=Accurac	y								
					_								
Hill	Unit	Qty	T AANA/ Dw	ASUW P	4 400 A C D								
	INF	1	77117	T 0	ASW Px	GASLT Px	FIRES Px		HOLD Px	MINE Px			
	CAS	2	2	6	 	0	20	16	10	1	0		
	DDG	0	0	0	0	1 0	0	1 0	8	0	0		
	ENG	0	0	0	0	0	0	Ö	Ö	ŏ	 		
		Total, r=	3	6	0	10	22	18	10	3	0		
	Required	Power, R _i =	0	0	0	10	14	12	0	0	-	Nonzeros, n =	3
	1	djusted r _i =	· na	na	na	10	14	12	na	na	na		لبل
		r/R _i =	0	0	0	1	1	· 1	0	0	0		
		[r/R _i]*=	0	0	0	1 1	1	1 1	0	0	0	•	
		$\Sigma[r/R_i]^2$ =					· · · · · · · · · · · · · · · · · · ·	<u> </u>		- 0			
	(1/n)	Σ[r/R _i] ² =	1	=Accuracy	1								
•		2000			J								
•													_
Airport	Unit	Qty		ASUW Px		GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
	INF	2	2	0	0	20	4	4	20	2	0		
	DDG	- 6	0	3	0	0	10	8	0		0		
	ENG	ŏ	- 6	0	 	0	0	0	0	0	0		
	ForceT	otal, r=	3	3	0	20	14	12	0 20	0	0		
	Required	Power, R,=	0	-	-	20	10	4	0	3	0	Nonzeros, n =	3
		djusted r; =	na	na	na	20	10			0.	0		Ш
	i	r/R,=	0	0	0	1	1	4	na	na	na		
		[r/R _i]*=	-	0	- ŏ	1	1	1	0	0	0		
		Σ[r/R _i]*=	3	<u> </u>		<u> </u>		1	0	0	0		
		Σ[τ/R _i]*=	1	=Accuracy									
	()	21.17.41		7.000.00	I			,					
							·						
Seaport	Unit	Qty		ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
	CAS	2	2	0	0	20	4	4	20	2	0		
	DDG	0	00	0	00	0	0	0	0	0	0	-	
	ENG	0	Ö		Ö	- 6 - 1	0	0	0	0	0		
	ForceT	otal, r=	2	0	0	20	4	4	20	2	0		
	Required F	ower, R.=	0	0	0	20	10	4	0		0	Nonzeros, n ≃	3
		djusted r. =	na	na	na	20	4	4		0	0 .		Ш
		r/R,=	0	0	0	1	0.4		na	ne	na		
		[r/R _i]*=	0	0		1	0.16	1	0	0	0		
		Σ[r/R _i] ² =	2.16				0,10	1	0	0	0		
		$\sum [i/R_i]^2 =$	0.72	=Accuracy							· · ·		
	(111)	2[114] -	0.72	-/ www. acy									
Bridge	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMP D-	HOLD Px	MINE D.	MED D		
	INF	0	0	0	0	0 1	0	74(1011)	10LD FX	WINE PX	MEDEX		
•	CAS	1		3	0	0	10	8	ō	1			
	DDG ENG	0	0	0	0	0	0	0	-	0	0		
	ForceTo	1	0	0	0	2	0	0	2	5	0		
			1	3	0	2	10	8	2	6	0	Nonzeros, n =	3
	Required F		0	0	0	8	6	0	0	4	0	NULLERUS, II =	4
	AC AC	djusted r _i =	na	na	na	2	6	na	na	4	na		
	\vdash	r/R _i =	0	0	0	0.25	1	0	0	1	0		
	<u></u>	[r/R,]*=	0	0	0	0.0625	1	0	0	1	0		
•		$\sum_{i=1}^{n} (r_i/R_i)^2 =$	2.0625										
	(1/n)*;	Σ[r/R _i] ² =	0.6875	=Accuracy									

N. RUN 12 - 3-3-99_J41J41_V3

3-3-99_J41J41_V3

		Asse	ts Used		7		
Objective	CAS	SHIP	INF	ENG	# of Controllers	Accuracy Score	Coordination Score
North Beach			INF_H/B		1	39.76%	1.00
Hill	BCAS1		INF_A/P INF_H/P		2	100.00%	2.00
Airport	PCAS3 PCAS4		INF_A/P		1	100.00%	1,00
Seaport	BCAS9		INF_H/P		2	100.00%	2.00
Bridge			L	ENG	1 1	53.13%	1.00
						ļ	7.00
						78.58%	1.40

Sum

N Beach	Unit	City	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px	•	
	INF	2	2	0 1	0	20	4	4	20	2	0		
	CAS	0	0	0	0	0	0	0	0	0	0		
	DDG	0	0	0	0	0	0	0	0	0	0		
	ENG	0	0	0	0	0	0	0	0	0	0		
	ForceT	otal, r=	2	0	0	20	4	4	20	2	0	Nonzeros, n =	3
	Required	Power, R _i =	0	0	0	10	14	12	0	0	0	140126103, 11 -	ľ
	A	djusted r, =	na	na	na	10	4	4	na	na	na		_
		r/R _i =	0	0	0	1	0.285714286	0.333333	0	0	0		
		[r/R _i]'=		0	0	1	0.081632653	0.111111	0	0	0		
		$\Sigma [r/R_i]^2 =$	1.192744										
		*51r/R.12=											

HIII	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
	INF	3	3	1 0 1	0	30	6	7 6	30	3	0	•	
	CAS	1	1	3	0	0	10	8	0	1	0		
	DDG	0	0	0	0	0	0 .	0	0	0	0		
	ENG	0 .	0	0	0	0	0	0	0	0	0		
	ForceT	otal, r=	4.	3	0	30	16	14	30	-4	0	Nonzeros, n =	3
	Required I	Power, R _i =	0	0	0	10	14	12	0	0	0	NO128105, 11 -	J
	A	djusted r, =	na	na	na	10	14	12	na	na	na	·	
		r/R,=	0	0	0	1	1	1	0	0	0		
		[7/R,]*=	0	0	0	1	1	1	0	0	0		
•		$\Sigma [r/R_i]^2 =$	3										
	(1/n)*	$\Sigma[r/R_i]^2 =$	1	=Accuracy									

irport	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px	
-	INF	2	2	0	0	20	. 4	4	20	2	0	
	CAS	2	2	6	0	0	20	16	0	2	0	
	DDG	0	0	0	G	0	0	0	0	0	0	
	ENG	0	. 0	0	0	0	0	0	0	. 0	0	
	Force	otal, r=	4	6	0	20	24	20	20	4	0	Nonzeros, n =
	Required	Power, R _i =	0	0	0	20	10	4	0	0	0	140128105, 17 -
		\djusted r, =	na	na	na	20	10	4	na	na	na	
		r/R _i =	0	0	0	1	1	1	0	0	0	
		[r/R]*=	0	0	0	1 1	1	1	0 /	0	0	
		Σ[r/R,]'=	3									
	(1/n)	*Σ[r/R] ² =	1	=Accuracy								

eaport	Unit	Qty	MIN FX	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD FX	MINERX	MEDPX		
	INF	2	2	0 7	0	20	4	1 4	20	2	0		
	CAS	1	1	3	0		10	8	Ō	1	0		
	DDG	0	0	0 7	0	0	0	0	0	0	0		
			0	0	0	0	0	0	0	0	0		
		otal, r=	3	3	0	20	14	12	20	3	0	Manager	_
	Required	Power, R _i =	0	0	0	20	10	4	0	0	0	Nonzeros, n =	
	A	djusted r, =	na	na	na	20	10	4	na	na	na	·	-
		r/R _i =	0	0	0	1	1	1	0	0	-		
		[r/R _i]'=	0	0	0	1 1	1	1	0	0	-		
		$\Sigma[r/R_i]'=$	3										
Bridge		Έ[r/R,] ² =		=Accuracy	A S'IA! Du	CASI T Du	SIRES D.	42112 P			·		
Bridge	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
Bridge	Unit INF	Qly 0	AAW Px	ASUW Px	0	0	0	ARMR Px	HOLD Px	MINE Px	MED Px		
Bridge	Unit INF CAS	Qty 0	AAW Px	ASUW Px	0	0	0	0					
Bridge	Unit INF CAS DDG	Qly 0	0 0	ASUW Px	0	0	0	0	0	0	0		
3ridge	Unit INF CAS DDG ENG	Qty 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ASUW Px	0	0 0 0 0 2	0 0 0	0	0 0 0 2	0	0		
3ridge	Unit INF CAS DDG ENG ForceT	Qty 0 0 1 otal, r=	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ASUW Px 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	0	0	0	0 0 0	0		
3ridge	Unit INF CAS DDG ENG ForceT	Qty 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ASUW Px	0	0 0 0 0 2	0 0 0	0	0 0 0 2	0 0 0 5	0	Nonzeros, n =	
Bridge	Unit INF CAS DDG ENG ForceT Required	Qty 0 0 1 otal, r=	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ASUW Px 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	0 0 0 2 2 2	0 0 0	0 0	0 0 0 2 2	0 0 0 5 5	0 0 0 0	Nonzeros, n =	
Bridge	Unit INF CAS DDG ENG ForceT Required	Qty 0 0 0 1 1 otsi, r=	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ASUW Px 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 2 2 2 8	0 0 0 0 0	0 0 0	0 0 0 2 2	0 0 5 5 4	0 0 0 0	Nonzeros, n =	
Bridge	Unit INF CAS DDG ENG ForceT Required	Qty 0 0 1 otal, r= Power, R,= djusted r,=	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ASUW Px 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 2 2 2 8 8 2	0 0 0 0 0 0 6 na	0 0 0 0 0	0 0 0 2 2 2 0 na	0 0 0 5 5 4 4	0 0 0 0 0 0 0 na	Nonzeros, n =	
Bridge	Unit INF CAS DDG ENG ForceT Required	Qty 0 0 1 otal, r= Power, R,= djusted r,= r/R,=	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ASUW Px 0 0 0 0 0 0 0 na	0 0 0 0 0 0 0 0 0	0 0 0 2 2 8 2 0.25	0 0 0 0 0 6 na	0 0 0 0 0 0	0 0 0 2 2 2 0 na	0 0 0 5 5 4 4	0 0 0 0 0	Nonzeros, n =	

O. RUN 13 – 3-3-99_J42J42_V3

3-3-99_J42J42_V3

		Asse	ts Used		7		
Objective	CAS	SHIP	INF	ENG	# of Controllers	Accuracy Score	Coordination Score
North Beach	PCAS1 PCAS2	DDG	INF_H/P INF A/P		2	100.00%	2.00
Hill	PCAS1 PCAS2		INF_H/B INF_A/B INF_A/P		2	100.00%	2.00
Airport	PCAS11		INF_H/B		2	100.00%	2.00
Seaport			INF_A/P INF_H/B		2	72.00%	2.00
Bridge	PCAS10		1	ENG	2	68.75%	2.00
							10.00
						88.15%	2.00

Ava

N Beach	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
	INF	3	3	0	0	30	- 6	6	30	3	0 1		
	CAS	2	2	6	0	0	20	16	0	2	0	•	
	DDG	1	10	10	1	0	9	5	0	Ö	ō		
•	ENG	0	0	0	0	0	0	0	0	Ō	Ö		
	ForceT		15	16	1	30	35	27	30	5	0		$\neg \neg$
	Required I	Power, R,≃	0	0	0	10	14	12	0	0	0	Nonzeros, n ≃	3
	A	djusted r; =	na	na	na	10	14	12	na	na	na		ய
		r/R _i =	0	0	0	1	1	1	0	0	0		
		[r/R _i]*=	0	0	0	1	1	1 1	0	0	0		
		Σ[r/R _i]*=	3			'							
	(1/n)*	$\Sigma [r/R_i]^2 =$	1	=Accuracy									

Hill	Unit	Qty	AAW Px	ASUW Px		GASLT Px	FIRES Px			MINE Px	MED Px		
	INF	4	4	0	0	40	8	8	40	4	0		
	CAS	2	2	6	0	0	20	16	0	2	0		
	DDG	0	0	0	0 .	0	0 .	0	0	0	0		
			6	6	0	40	28	24	40	6	0		
		Total, r=		1	0			. 1	0		t 1	Nonzeros, n =	3
		Power, R _i =	0	0		10	14	12		0	0		Ш
		Adjusted r _i =	na	na	na	10	14	12	na	na	na		
		r/R _i =	0	0	0	1	1	1 1	0	0	0		
		[r/R _i]*=	0	0	0	1	1	1	0	0	0		
		$\Sigma[r/R_i]^2 =$	3										
	(1/n)	*Σ[r/R,] ² =	1	=Accuracy							•		
Airport	Unit	Qiy	I AAW P~	ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Pv	HOLD Px	MINE Dy	MED Px		_
Auport	INF	2	2	0	1 0 1	20	4	1 4	20	2	0		
	CAS	 	1	3	ŏ	0	10	8	0	1	0		
	DDG	6	ò	ō	0	Ö	0	Ö	ō	Ö	0		
	ENG	0	0	0	0	0	0	0	0	0	0		
	Force	otal, r=	3	3	0	20	14	12	20	3	0	A1	
	Required	Power, R _i =	0	0	0	20	10	4	0	0	-	Nonzeros, n =	3
		diusted r, =	na	na	na	20	10	4	па	na	na		نـــــــ
	-	r/R,=	0	0	0	1	1	1	0	0	0		
		[r/R]*=	0	0	0	1	1	1	0	0	-		
			3	_	•	<u> </u>	<u> </u>	J'					
		$\sum [r/R_i]^2 = \sum [r/R_i]^2 =$	1	=Accuracy									
Seaport	Unit INF CAS DDG	City 2 0 0	2 0 0	ASUW Px	ASW Px	GASLT Px 20 0	FIRES Px 4 0	0	HOLD Px 20 0	2 0 0	MED Px 0 0	·	
	ENG	0	0	0	0	0	0	0	0.	0	0		
	ForceT	otal, r=	2 (0	0	20	4	4	20	2	0	Nonzeros, n =	3
	Required	Power, R _i =	0	0	0 ·	20	- 10	4	0	0	0	Nonzeros, 11	"
	A	djusted r, =	na	na	na	. 20	4	4	na	na	na		
	-	r/R,=	0	0	. 0	1	0.4	1	0	0	0		
		[r/R,]*=	0	0	0	1	0.16	1	0	0	0		
	 	$\Sigma[r/R,]^2 =$	2.16					lI					
		$\sum [r/R_i]^2 =$	0.72	=Accuracy									
Bridge	Unit	Qty		ASUW Px	ASW Px	GASLT Px	FIRES Px	ARMR Px	HOLD Px	MINE Px	MED Px		
•	INF	0	0	0	0	0	0	0	0	0	0		
	CAS		1	3	0	0	10	8	0	1	0		
	DDG	0	0	0	0	. 0	0	0	0	0	0	•	
	ENG	1	0	0	0	2	0	0	2	5	0		
		otal, r=	1	3	0	2	10	8	2	6	0	Nonzeros, n =	3
	Required	Power, R _i =	0	0	0	8	6	0	0	4	0		Ш
	Α	djusted r _i =	na	na	na	2	6	na	na	4	na		
		r/R,=	0	0	0	0.25	1	0	0	1	0		
		[r/R _i]'=	O	0	0	0.0625	1	0	0	1	0		
		$\Sigma[r/R]^2 =$	2.0625					·	1			•	
				=Accuracy									

P. RUN 14 - 3-3-99_J43J43_V3

3-3-99_J43J43_V3

		Asse	ts Used "	····	7		
Objective	CAS	SHIP	INF	ENG	# or Controllers	Accuracy Score	Coordination Score
North Beach	BCAS3 BCAS4		INF_H/B		1	100.00%	1.00
Hill	BCAS1 BCAS2		INF_H/B		1	100.00%	1.00
Airport	PCAS8		INF_H/B		2	100.00%	2.00
Seaport	BCAS14	٠.	INF_H/P		2	100.00%	2.00
Bridge	FCAS5		 	ENG	1 1	68.75%	1.00

Sum

N Beach	Unit	Qty	AAW P	ASUW P	ASW Px	GASLT Px	FIRES Px	ARMR P	HOLD Px	MINE D	MED D		
	INF	1	1	0	1 0	10	2	1 2	1 10	1 1	WED FX	1	
	CAS	2	2	- 6	0	0	20	16	0	2	ō	1	
	DDG	0	0	0	0	. 0	0	0	0	0	0	1	
	ENG	0	0	0	0	0	0	0	0	0	0		
		Total,r≃	3	6	0	10	22	18	10	3	0		
	Required	Power, R _i =	0	0	0	10	14	12	0	0	0	Nonzeros, n =	3
		Adjusted r, =	na	na	na	10	14	12	na	na	na	<u> </u>	J
		r/R _i :	0	1 0	0	1	1	1	0	0	0	1	
		[r/R,]*:	0	1 0	0	 	1	+ ;					
		$\Sigma[r/R_i]^2$				<u> </u>	L			0	0	i -	
	/45	<u>Σ[η/R,]²=</u>											
	(Inc	/ 2 [I/K;] -	1	=Accuracy]								
Hill	Unit	Qty	AAW PY	ASUW Px	ASW Px	GASLT Px	FIRES Px	ADMO D.					
	INF	1 7	1 1	1 0	701117	10	7 PIRES PX	T 2	HOLD Px	MINE PX		i	
	CAS	2	2	6	ŏ	- i	20	16	10	2	0		
	DDG	0	0	0	0		0	 	0		 6	İ	
	ENG	0	0	0	0	0	Ö	 0	0	0	 		
	Force	otal, r=	3	6,	0	10	22	18	10	3	0		_
	Required	Power, R ₁ =	0	0	0	10	14	12	0	0	0	Nonzeros, n =	3
		djusted r. =		na	na	10	14	12	na			<u></u>	┛
	-	r/R _i ≈		0	0	1				na	na		
	-	[r/R _i]*=	1	-		L	1	1	0	0	0		
				ļ <u> </u>	U	1	1	1	0	0	0		
	L	$\Sigma[r/R_i]^2 =$											
	(n/r)	*Σ[r/R _i]²=	1	=Accuracy									
Airport	Unit	Qty	1 AAW D	ASUW Px	ASW Px	GASLT Px	FIRES Px	4040 D					
	INF	2	2	1 0	ASW FX	ZO T			HOLD Px				
	CAS	<u> </u>	- T	3	ŏ	20	4 10	8	20	2	0		
	DDG	0	0	ō	0	- 5 	- 0	- 6	- 6	- ;	0		
	ENG	0	0	0	0	0	0	- 0	- ō -	Ö	- 6		
	ForceT	otal, r=	3	3	0	20	14	12	20	3	0		٦.
	Required Power, R,=		0	0	0	20	10	4	0	-		Nonzeros, n =	3
		djusted r, =	na	na	na	20	10	4					J
	-	r/R _i =	0	0	0	1	1		na	na	na		
	<u> </u>	[r/R,]*=	-	0	0			1 1	0	0	0		
			3			1	1	1	0	0	0		
		$\sum [r/R_i]^2 =$			•								
	(1/1)	Σ[t/R,] ₂ =	1	=Accuracy									
Seaport	Unit	Qty	AAW Px	ASUW Px	ASW Px	GASLT Px	FIRES Px	ADMD D	HOLD Px	MINE O.			
•	INF	2	2	0 1	0 1	20	TINESTA						
	CAS	1											
	DDG		1	3	0	0	10	4 8	20 }	2	0		
		0	0	0	0		10 0	8 0		2	0		
	ENG	0	0	0	0	0		8	20 0	2	0		
		0	0 0 3	0	0	0	0	8	20 0 0	2 1 0	0		7
	ENG ForceT	0	0	0	0	0	0	8 0 0	20 0 0	2 1 0 0 3	0 0 0	Nonzeros, n = 3	7
	ForceT Required	0 0 otal, r=	0 0 3	0 0 3	0	0 0 0 20	0 0 14	8 0 0 12 4	20 0 0 0 20 0	2 1 0 0 3 0	0 0 0 0 0	Nonzeros, n = 3	3]
	ForceT Required	0 0 otal, r= Power, R _i =	0 0 3 0	0 0 3 0	0 0	0 0 0 20 20 20	0 0 14 10	8 0 0 12 4 4	20 0 0 0 20 0 na	2 1 0 0 3 0 na	0 0 0 0 0 0	Nonzeros, n ≃ 3]
	ForceT Required	0 0 otal, r≔ Power, R₁= djusted r₁= r/R₁=	0 0 3 0 na	0 0 3 0 na	0 0 0 0 0 na	0 0 0 20 20 20 1	0 0 14 10 10	8 0 0 12 4 4	20 0 0 0 20 0 na	2 1 0 0 3 0 na 0	0 0 0 0 0 0 0	Nonzeros, n ≃ 3	}
	ForceT Required A	0 0 otal, r = Power, R _i = djusted r _i = r _i /R _i = [r _i /R _i] ² =	0 3 0 na 0	0 0 3 0 na 0	0 0 0 0 na	0 0 0 20 20 20	0 0 14 10	8 0 0 12 4 4	20 0 0 0 20 0 na	2 1 0 0 3 0 na	0 0 0 0 0 0	Nonzeros, n ≃ 3]
	ForceT Required A	0 0 otal, r = Power, R _i = djusted r _i = r/R _i = [r/R _i] ² = Σ[r/R _i] ² =	0 0 3 0 na 0	0 0 3 0 na 0	0 0 0 0 0 na	0 0 0 20 20 20 1	0 0 14 10 10	8 0 0 12 4 4	20 0 0 0 20 0 na	2 1 0 0 3 0 na 0	0 0 0 0 0 0 0	Nonzeros, n = 3]
	ForceT Required A	0 0 otal, r = Power, R _i = djusted r _i = r _i /R _i = [r _i /R _i] ² =	0 3 0 na 0	0 0 3 0 na 0	0 0 0 0 0 na	0 0 0 20 20 20 1	0 0 14 10 10	8 0 0 12 4 4	20 0 0 0 20 0 na	2 1 0 0 3 0 na 0	0 0 0 0 0 0 0	Nonzeros, n = 3]
	ForceT Required A	0 0 otal, r = Power, R _i = djusted r _i = r/R _i = [r/R _i] ² = Σ[r/R _i] ² =	0 0 3 0 na 0	0 0 3 0 na 0	0 0 0 0 0 na	0 0 0 20 20 20 1	0 0 14 10 10	8 0 0 12 4 4	20 0 0 0 20 0 na	2 1 0 0 3 0 na 0	0 0 0 0 0 0 0	Nonzeros, n = 3]
Bridge	ForceT Required A	0 0 otal, r = Power, R _i = djusted r _i = r/R _i = [r/R _i] ² = Σ[r/R _i] ² =	0 0 3 0 na 0 0 3	0 0 3 0 na 0	0 0 0 0 na 0	0 0 20 20 20 1 1	0 0 14 10 10 1 1	8 0 0 12 4 4 1	20 0 0 0 20 0 na 0	2 1 0 0 3 0 na 0	0 0 0 0 0 0 0 na 0	Nonzeros, n ≃ 3]
Bridge	ForceT Required A (1/n)*	0 otal, r= Power, R _i = djusted r _i = r/R _i = [r/R _i] ² = Σ [r/R _i] ² = Σ [r/R _i] ² = Σ [r/R _i] ² = Ωty	0 0 3 0 na 0 0 3	0 0 3 0 na 0 0	0 0 0 0 0 na	0 0 0 20 20 20 1	0 0 14 10 10	8 0 0 12 4 4 1	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 0 0 3 0 na 0 0	0 0 0 0 0 0 na 0 0	Nonzeros, n ≃ 3]
Bridge	ForceT Required I A (1/n)** Unit INF CAS	0 0 otal, r= Power, R _i = djusted r _i = (r/R _i)*= [r/R _i]*= ∑[r/R _i]*= Cty O	0 0 3 0 na 0 0 3 1	0 0 3 0 na 0 0 =Accuracy	0 0 0 0 na 0 0 0	0 0 0 20 20 20 1 1 1	0 0 14 10 10 1 1	8 0 0 12 4 4 1	20 0 0 0 20 0 na 0	2 1 0 0 3 0 na 0	0 0 0 0 0 0 0 na 0	Nonzeros, n ≃ 3	
Bridge	ForceT Required A (1/n)* Unit INF CAS DDG	0 0 otal, r = Power, R, = djusted r, = r/R, = [r/R, f' = Σ [r/R, f' = Σ [r/R, f' = Σ [r/R, f' = 0] Otal	0 0 3 0 na 0 3 1	0 0 3 0 na 0 0 =Accuracy	0 0 0 0 na 0 0	0 0 20 20 20 1 1 1	0 0 14 10 10 1 1 1	8 0 0 12 4 4 1 1 1 1 1	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 0 0 3 0 na 0 0	0 0 0 0 0 0 0 0 0 0 0	Nonzeros, n = 3]
Bridge	ENG ForceT Required A (1/n)* Unit INF CAS DDG ENG	0 0 otal, r= Power, R, = djusted r, = f/R, = [r/R, f' = Σ [r/R, f' = Σ [r/R, f' = 1 Oty 0 1	0 0 3 0 na 0 0 3 1	0 0 3 0 0 0 0 =Accuracy	0 0 0 0 na 0 0	0 0 0 20 20 21 1 1 1 GASLT Px 0 0 0 0 2	0 0 14 10 10 1 1 1 1 FIRES Px 0 10 0	8 0 0 12 4 4 1 1 1 1	20 0 0 0 20 0 na 0 0 0	2 1 0 0 0 3 0 0 0 0 0	0 0 0 0 0 0 0 na 0 0	Nonzeros, n ≃ 3	
Bridge	ENG ForceT Required A (1/n)* Unit INF CAS DOG ENG ForceTo	0 0 otal, r= Power, R,= djusted r,= r/R,= r/R,= r/R,f= 2 (r/R,f'= 2 (r/R,f'= 0 0 1 otal, r=	0 0 3 0 0 3 1 1 AAW.Px 0 1 0	0 0 3 3 0 na 0 0 =Accuracy	0 0 0 0 na 0 0 0	0 0 0 0 20 20 1 1 1 1 GASLT Px 0 0 0 0 2 2 2	0 0 14 10 10 1 1 1 1 FIRES Px 0 10 0	8 0 0 12 4 4 1 1 1 1 1	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 0 0 0 3 0 na 0 0 0	0 0 0 0 0 0 0 na 0 0 0		_
Bridge	ENG ForceT Required A (1/n)* Unit INF CAS DNS ENG ForceT Required F	0 0 otal, r = Power, R, = djusted r, = r/R, = [r/R,]* = Σ [r/R,]* = Σ [r/R,]* = 0 Otal, r = Power, R, =	0 0 3 0 na 0 0 3 1 1 AAW-Px 0 1 0 0 1	0 0 3 0 na 0 0 =Accuracy	0 0 0 0 na 0 0	0 0 0 20 20 20 1 1 1 GASLT Px 0 0 0 2 2 8	0 0 14 10 10 1 1 1 1 FIRES Px 0 10 0	8 0 0 12 4 4 1 1 1 1	20 0 0 0 20 0 na 0 0 0	2 1 0 0 0 3 0 na 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 na 0 0	Nonzeros, n = 3	_
Bridge	ENG ForceT Required A (1/n)* Unit INF CAS DNS ENG ForceT Required F	0 0 otal, r= Power, R,= djusted r,= r/R,= r/R,= r/R,f= 2 (r/R,f'= 2 (r/R,f'= 0 0 1 otal, r=	0 0 3 0 0 0 3 1 1 AAW.Px 0 1 0 0 1	0 0 3 3 0 na 0 0 =Accuracy	0 0 0 0 na 0 0 0	0 0 0 0 20 20 1 1 1 1 GASLT Px 0 0 0 0 2 2 2	0 0 14 10 10 1 1 1 1 FIRES Px 0 10 0	8 0 0 12 4 4 1 1 1 1 ARMR Px 0 8 0 0	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 0 0 0 3 0 na 0 0 0	0 0 0 0 0 0 0 na 0 0		_
Bridge	ENG ForceT Required A (1/n)* Unit INF CAS DNS ENG ForceT Required F	0 0 otal, r = Power, R, = djusted r, = r/R, = [r/R,]* = Σ [r/R,]* = Σ [r/R,]* = 0 Otal, r = Power, R, =	0 0 3 0 na 0 0 3 1 1 AAW-Px 0 1 0 0 1	0 0 3 0 na 0 0 =Accuracy	0 0 0 0 na 0 0 0	0 0 0 20 20 20 1 1 1 GASLT Px 0 0 0 2 2 8	0 0 14 10 10 1 1 1 1 FIRES Px 0 10 0 0	8 0 0 12 4 4 1 1 1 1 ARMR Px 0 8 0 0 8	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 0 0 3 0 na 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		_
Bridge	ENG ForceT Required A (1/n)* Unit INF CAS DNS ENG ForceT Required F	0 0 otal, r= Power, R,= djusted r,= r/R,= [r/R, r]= Σ [r/R, r]= Σ [r/R, r]= Otal, r= Power, R,= djusted r,=	0 0 3 0 0 0 3 1 1 AAW.Px 0 1 0 0 1	0 0 3 0 0 0 0 =Accuracy	0 0 0 0 na 0 0 0	0 0 0 0 20 20 1 1 1 1 1 GASLT Px 0 0 0 2 2 2 8 2 2	0 0 14 10 10 1 1 1 1 FIRES Px 0 0 0 0 0 10 6 6	8 0 0 12 4 4 1 1 1 1 ARMR Px 0 0 0 8 0 0 0 na 0	20 0 0 0 20 0 na 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 0 0 3 0 na 0 0 0 0 1 1 0 5 6 4 4 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		_
Bridge	ENG ForceT Required (1/n)* Unit INF CAS DDS ENG ForceT Required A	0 0 otal, r = Power, R, = djusted r, = r/R, = r/R, = r/R, = r/R, = r/R, = r/R, = otal, r = f/R, = r/R, = r/R, = r/R, =	0 0 3 0 0 3 1 1 AAW.Px 0 1 0 0 0 1 0 0 1	0 0 3 0 0 0 0 =Accuracy ASUW Px 0 3 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 20 20 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 14 10 10 1 1 1 1 FIRES Px 0 10 0 0 10 6	8 0 0 12 4 4 1 1 1 1 ARMR Px 0 8 0 0	20 0 0 0 0 20 0 na 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 0 0 3 0 na 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		_
Bridge	ENG ForceT Required (1/n)* Unit INF CAS DOG ENG ForceT Required F	0 0 otal, r= Power, R₁= djusted r₁= r/R₁= [r/R₁]'= ∑ [r/R₁]'= ∑ [r/R₁]'=	0 0 3 0 0 3 1 1 AAW.Px 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 0 0 0	0 0 3 0 0 0 0 =Accuracy ASUW Px 0 3 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 20 20 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 14 10 10 1 1 1 1 FIRES Px 0 0 0 0 0 10 6 6	8 0 0 12 4 4 1 1 1 1 ARMR Px 0 0 0 8 0 0 0 na 0	20 0 0 0 20 0 na 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 0 0 3 0 na 0 0 0 0 1 1 0 5 6 4 4 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		_

APPENDIX F – TWO SETS OF SAMPLE DATA FROM A FOUR- AND A SIX-NODE RUN

A. FOUR-NODE RUN

PRINTED BY: mds007

1. Spot Report Log File from 2-23-99 J41J43 V1

2-23-99_J41J43_V1...... SPOT REPORT LOG FILE: PRINTED BY: ;OBJECT DETECT;SOF;32SPG726000;060800ZJAN99;MANCON 1;HAVE DETECTED STRUCTURE AT 32SPG727000; PRINTED BY: mds007 ;OBJECT DETECT;SOF;32SPG726000;060800ZJAN99;MANCON 1;HAVE DETECTED BRIDGE [% 0 DAMAGED] AT 32SPF738992; PRINTED BY: mds007 ;OBJECT DETECT;SOF;32SPG726000;060800ZJAN99;MANCON 1;HAVE DETECTED BRIDGE [% O DAMAGED] AT 32SPG740005; PRINTED BY: mds007 ;OBJECT DETECT;SOF;32SPG726000;060800ZJAN99;MANCON 1;HAVE DETECTED RIVER AT 32SPF738996; PRINTED BY: mds007 ;AIR RTE POINT;H1;32SQG099006;060801ZJAN99;MANCON 2;CRUISE MISSILE HAS REACHED ATTACK POINT PRINTED BY: mds007 ;ASSESSMENT REPORT;FFG;AIR TO SURFACE;32SQG099007;060801ZJAN99;MANCON 2; NO ASSESSMENT; Msn# H1 PRINTED BY: mds007 ;AIR MSN LAUNCH;SOFFCAS1;32SPG901122;060801ZJAN99;MANCON 1;AIR MISSION HAS LAUNCHED PRINTED BY: mds007 ;AIR MSN LAUNCH; FCAS1; 32SPG901122; 060801ZJAN99; MANCON 1; AIR MISSION HAS LAUNCHED PRINTED BY: mds007 ;AIR MSN LAUNCH;GCAP1;32SPG901122;060801ZJAN99;MANCON 2;AIR MISSION HAS LAUNCHED PRINTED BY: mds007 ;AIR MSN LAUNCH;AA86;32SPF625617;060801ZJAN99;AGCON 1;AIR MISSION HAS LAUNCHED PRINTED BY: mds007 ;AIR TRK DATA;LHA;32SPF962990;060801ZJAN99;MANCON 4;AIR TRACK J (AA86) DETECTED AT 32SPF658621; TRACK IS SUSPECT

;AIR MSN ILLUMINATED;AA86;32SPF658621;060801ZJAN99;AGCON_1;AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060801ZJAN99;MANCON_4;AIR TRACK K (GCAP1) DETECTED AT 32SPG864122; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060801ZJAN99;MANCON_4;AIR TRACK L (FCAS1) DETECTED AT 32SPG934140; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060801ZJAN99;MANCON_4;AIR TRACK M (SOFFCAS1)
DETECTED AT 32SPG968160; TRACK IS FRIENDLY
PRINTED BY: mds007

;AIR MSN LAUNCH;GCAP2;32SPG901122;060801ZJAN99;MANCON_2;AIR MISSION HAS LAUNCHED PRINTED BY: mds007

;AIR MSN LAUNCH; FCAS2; 32SPG901122; 060801ZJAN99; MANCON_1; AIR MISSION HAS LAUNCHED
PRINTED BY: mds007

;AIR MSN LAUNCH;BCAS1;32SPG901122;060802ZJAN99;MANCON_3;AIR MISSION HAS LAUNCHED PRINTED BY: mds007

;AIR RTE POINT;SOFFCAS1;32SQG025193;060802ZJAN99;MANCON_1;AIR MISSION HAS REACHED ORBIT POINT PRINTED BY: mds007

;AIR MSN LAUNCH;BCAS2;32SPG901122;060802ZJAN99;MANCON_3;AIR MISSION HAS LAUNCHED PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060802ZJAN99;MANCON_4;AIR TRACK N (BCAS2) DETECTED AT 32SPG914087; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060802ZJAN99;MANCON_4;AIR TRACK O (BCAS1) DETECTED AT 32SPG914087; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060802ZJAN99;MANCON_4;AIR TRACK P (FCAS2) DETECTED AT 32SPG935138; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060802ZJAN99;MANCON_4;AIR TRACK Q (GCAP2) DETECTED AT 32SPG827123; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR MSN LAUNCH;BCAS3;32SPG901122;060802ZJAN99;MANCON_3;AIR MISSION HAS LAUNCHED PRINTED BY: mds007

;AIR MSN LAUNCH; PCAS1; 32SPG901122; 060802ZJAN99; MANCON_4, MANCON_1; AIR MISSION HAS LAUNCHED PRINTED BY: mds007

;SHIP MOVE;PB1;32SPG682134;060802ZJAN99;AGCON_1;HAVE COMMENCED MOVEMENT PRINTED BY: mds007

;AIR MSN LAUNCH;BCAS4;32SPG901122;060802ZJAN99;MANCON_3;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH;BCAS5;32SPG901122;060802ZJAN99;MANCON_3;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH;PCAS2;32SPG901122;060802ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS LAUNCHED PRINTED BY: mds007

;AIR MSN LAUNCH; FCAS3; 32SPG901122; 060802ZJAN99; MANCON_1; AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR RTE POINT;FCAS1;32SQG025193;060802ZJAN99;MANCON_1;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR MSN LAUNCH;BCAS6;32SPG901122;060802ZJAN99;MANCON_3;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH; PCAS3; 32SPG901122; 060802ZJAN99; MANCON_4, MANCON_1; AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH;GCAP3;32SPG901122;060802ZJAN99;MANCON_2;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH;FCAS4;32SPG901122;060802ZJAN99;MANCON_1;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH; FCAS5; 32SPG901122; 060802ZJAN99; MANCON_1; AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH;GCAP4;32SPG901122;060802ZJAN99;MANCON_2;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH;PCAS4;32SPG901122;060802ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060802ZJAN99;MANCON_4;AIR TRACK R (PCAS4)
DETECTED AT 32SPG887088; TRACK IS FRIENDLY
PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060802ZJAN99;MANCON_4;AIR TRACK S (GCAP4) DETECTED AT 32SPG864122; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060802ZJAN99;MANCON_4;AIR TRACK T (FCAS5).
DETECTED AT 32SPG935138; TRACK IS FRIENDLY

;AIR TRK DATA;LHA;32SPF962990;060802ZJAN99;MANCON_4;AIR TRACK U (FCAS4) DETECTED AT 32SPG935138; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060802ZJAN99;MANCON_4;AIR TRACK V (GCAP3) DETECTED AT 32SPG864122; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060802ZJAN99;MANCON_4;AIR TRACK W (PCAS3) DETECTED AT 32SPG872054; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060802ZJAN99;MANCON_4;AIR TRACK X (BCAS6) DETECTED AT 32SPG926052; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060802ZJAN99;MANCON_4;AIR TRACK Y (FCAS3)
DETECTED AT 32SPG968154; TRACK IS FRIENDLY
PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060802ZJAN99;MANCON_4;AIR TRACK Z (PCAS2)
DETECTED AT 32SPG872054; TRACK IS FRIENDLY
PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060802ZJAN99;MANCON_4;AIR TRACK AA (BCAS5) DETECTED AT 32SPG926052; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060802ZJAN99;MANCON_4;AIR TRACK AB (BCAS4) DETECTED AT 32SPG926052; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060802ZJAN99;MANCON_4;AIR TRACK AC (PCAS1) DETECTED AT 32SPG871051; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060802ZJAN99;MANCON_4;AIR TRACK AD (BCAS3) DETECTED AT 32SPG927049; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060802ZJAN99;MANCON_4;SURFACE TRACK AE (PB1) DETECTED AT 32SPG682134; TRACK IS HOSTILE PRINTED BY: mds007

;AIR MSN LAUNCH; PCAS5; 32SPG901122; 060802ZJAN99; MANCON_4, MANCON_1; AIR MISSION HAS LAUNCHED PRINTED BY: mds007

;AIR MSN LAUNCH;GCAP5;32SPG901122;060802ZJAN99;MANCON_2;AIR MISSION HAS LAUNCHED PRINTED BY: mds007

;AIR MSN LAUNCH;PCAS6;32SPG901122;060802ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR RTE POINT;BCAS1;32SPG817049;060803ZJAN99;MANCON_3;AIR MISSION HAS REACHED ATTACK POINT PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_BLUE; AIR_TO_SURFACE; 31NAA661000; 060803ZJAN99; MANCON_3; BCAS1;

CE PRODUCT NORTH RD; No damage assessed.

PRINTED BY: mds007

; ASSESSMENT

REPORT; INF_A/B; AIR_TO_SURFACE; 31NAA661000; 060803ZJAN99; MANCON_3; BCAS1;

CE_PRODUCT NORTH RD; No damage assessed.

PRINTED BY: mds007

;AIR RTE POINT;GCAP2;32SPG680125;060803ZJAN99;MANCON_2;AIR MISSION HAS REACHED

ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT;GCAP1;32SPG663123;060803ZJAN99;MANCON 2;AIR MISSION HAS REACHED

ORBIT POINT

PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060803ZJAN99;MANCON 4;AIR TRACK AF (PCAS6)

DETECTED AT 32SPG872054; TRACK IS FRIENDLY

PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060803ZJAN99;MANCON 4;AIR TRACK AG (GCAP5)

DETECTED AT 32SPG827123; TRACK IS FRIENDLY

PRINTED BY: mds007

;AIR TRK DATA; LHA; 32SPF962990; 060803ZJAN99; MANCON 4;AIR TRACK AH (PCAS5)

DETECTED AT 32SPG871051; TRACK IS FRIENDLY

PRINTED BY: mds007

;AIR RTE POINT; PCAS1; 32SPF828955; 060803ZJAN99; MANCON 4, MANCON 1; AIR MISSION

HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT; FCAS2; 32SQG080209; 060803ZJAN99; MANCON 1; AIR MISSION HAS REACHED

ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT;BCAS5;32SPF959958;060803ZJAN99;MANCON 3;AIR MISSION HAS REACHED

ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT; PCAS2; 32SPF828955; 060803ZJAN99; MANCON 4, MANCON 1; AIR MISSION

HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR MSN LAUNCH; FCAS6; 32SPG901122; 060803ZJAN99; MANCON 1; AIR MISSION HAS

LAUNCHED

PRINTED BY: mds007

;AIR RTE POINT;BCAS6;32SPF959958;060803ZJAN99;MANCON 3;AIR MISSION HAS REACHED

ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT;PCAS3;32SPF828955;060803ZJAN99;MANCON 4,MANCON 1;AIR MISSION

HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT;PCAS1;32SPF841930;060803ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS REACHED ATTACK POINT
PRINTED BY: mds007

;STATUS CHANGE;HILLIFY;32SPF841931;060803ZJAN99;AGCON_1; RECEIVING AIR-TO-SURFACE FIRE
PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_PURPLE; AIR_TO_SURFACE; 31NAA661000; 060803ZJAN99; MANCON 4; PCAS1;

CE_PRODUCT NOR BCH; No damage assessed.

CE_PRODUCT NORTH RD; No damage assessed.
PRINTED BY: mds007

; ASSESSMENT REPORT; SOF; AIR_TO_SURFACE; 31NAA661000; 060803ZJAN99; MANCON_1; PCAS1;

CE_PRODUCT NOR BCH; No damage assessed.

CE_PRODUCT NORTH RD; No damage assessed.
PRINTED BY: mds007

;AIR MSN LAUNCH;FCAS7;32SPG901122;060803ZJAN99;MANCON_1;AIR MISSION HAS LAUNCHED PRINTED BY: mds007

;AIR RTE POINT; PCAS2; 32SPF841930; 060803ZJAN99; MANCON_4, MANCON_1; AIR MISSION HAS REACHED ATTACK POINT PRINTED BY: mds007

;STATUS CHANGE;HILLIFY;32SPF841931;060803ZJAN99;AGCON_1; RECEIVING AIR-TO-SURFACE FIRE PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_PURPLE; AIR_TO_SURFACE; 31NAA661000; 060803ZJAN99; MANCON_4; PCAS2;

CE_PRODUCT NOR BCH; No damage assessed.

CE_PRODUCT NORTH RD; No damage assessed.
PRINTED BY: mds007

; ASSESSMENT REPORT; SOF; AIR_TO_SURFACE; 31NAA661000; 060803ZJAN99; MANCON_1; PCAS2;

CE_PRODUCT NOR BCH; No damage assessed.

CE_PRODUCT NORTH RD; No damage assessed. PRINTED BY: mds007

;AIR RTE POINT;FCAS3;32SQG080209;060803ZJAN99;MANCON_1;AIR MISSION HAS REACHED ORBIT POINT PRINTED BY: mds007

;AIR MSN LAUNCH;FCAS8;32SPG901122;060803ZJAN99;MANCON_1;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR RTE POINT; PCAS4; 32SPF828955; 060803ZJAN99; MANCON_4, MANCON_1; AIR MISSION HAS REACHED ORBIT POINT PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060803ZJAN99;MANCON 4;AIR TRACK AI (FCAS8) DETECTED AT 32SPG935138; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA; LHA; 32SPF962990; 060803ZJAN99; MANCON 4; AIR TRACK AJ (FCAS7) DETECTED AT 32SPG935138; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060803ZJAN99;MANCON 4;AIR TRACK AK (FCAS6) DETECTED AT 32SPG968154; TRACK IS FRIENDLY PRINTED BY: mds007

;UNIT MOVE ;LDVEH1;32SPG729015;060803ZJAN99;AGCON 1;COMMENCING MOVEMENT at 060803ZJAN99 PRINTED BY: mds007

;AIR RTE POINT;BCAS3;32SPF849934;060803ZJAN99;MANCON 3;AIR MISSION HAS REACHED ATTACK POINT .PRINTED BY: mds007

; ASSESSMENT

REPORT; VF BLUE; AIR_TO_SURFACE; 31NAA661000; 060803ZJAN99; MANCON 3; BCAS3;

CE PRODUCT NOR BCH; No damage assessed.

CE PRODUCT NORTH RD; No damage assessed. PRINTED BY: mds007

; ASSESSMENT

REPORT; INF A/B; AIR TO SURFACE; 31NAA661000; 060803ZJAN99; MANCON 3; BCAS3;

CE PRODUCT NOR BCH; No damage assessed.

CE PRODUCT NORTH RD; No damage assessed. PRINTED BY: mds007

;AIR RTE POINT;GCAP3;32SPG697125;060803ZJAN99;MANCON 2;AIR MISSION HAS REACHED ORBIT POINT PRINTED BY: mds007

;AIR MSN LAUNCH; FCAS9; 32SPG901122; 060803ZJAN99; MANCON 1; AIR MISSION HAS LAUNCHED PRINTED BY: mds007

;AIR RTE POINT;BCAS4;32SPF858902;060803ZJAN99;MANCON 3;AIR MISSION HAS REACHED ATTACK POINT PRINTED BY: mds007

;STATUS CHANGE;INF A/B;32SPF858901;060803ZJAN99;MANCON 3; RECEIVING AIR-TO-SURFACE FIRE PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_BLUE; AIR_TO_SURFACE; 31NAA661000; 060803ZJAN99; MANCON_3; BCAS4;

CE PRODUCT SOUTH BCH; No damage assessed.

CE PRODUCT SOUTH RD; No damage assessed.

TROOPS 21 WIA, 3 KIA

PRINTED BY: mds007

; ASSESSMENT

REPORT; INF_A/B; AIR_TO_SURFACE; 31NAA661000; 060803ZJAN99; MANCON 3; BCAS4;

CE_PRODUCT SOUTH BCH; No damage assessed.

CE_PRODUCT SOUTH RD; No damage assessed.

TROOPS 21 WIA, 3 KIA

PRINTED BY: mds007

;AIR RTE POINT;FCAS4;32SQG080209;060803ZJAN99;MANCON_1;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT; PCAS5; 32SPF828955; 060803ZJAN99; MANCON_4, MANCON_1; AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT;GCAP5;32SPG727125;060803ZJAN99;MANCON_2;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT;FCAS5;32SQG080209;060803ZJAN99;MANCON_1;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT;PCAS6;32SPF828955;060803ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS REACHED ORBIT POINT PRINTED BY: mds007

;AIR RTE POINT;GCAP4;32SPG712126;060803ZJAN99;MANCON_2;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;VISUAL DETECT;HILLIFY;32SPF841931;060803ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF843905, TRACK 2

, ID=INF_H/B TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT;HILLIFY;32SPF841931;060803ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF858902, TRACK 3

, ID=INF_A/B PRINTED BY: mds007

;OBJECT DETECT;LDVEH1;32SPG731012;060803ZJAN99;AGCON_1;HAVE DETECTED BRIDGE [% 0 DAMAGED] AT 32SPF738992; PRINTED BY: mds007

;OBJECT DETECT;LDVEH1;32SPG731012;060803ZJAN99;AGCON_1;HAVE DETECTED BRIDGE [% 0 DAMAGED] AT 32SPG740005; PRINTED BY: mds007 ;OBJECT DETECT;LDVEH1;32SPG731012;060803ZJAN99;AGCON_1;HAVE DETECTED RIVER AT 32SPG742007;

PRINTED BY: mds007

;OBJECT DETECT;LDVEH1;32SPG731012;060803ZJAN99;AGCON_1;HAVE DETECTED STRUCTURE AT 32SPG727000; PRINTED BY: mds007

;VISUAL DETECT;SOF;32SPG726000;060803ZJAN99;MANCON_1;HAVE DETECTED COMPANY SIZED LIGHT ARMOR UNIT AT 32SPG731010, TRACK 2

, ID=LDVEH1 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; PRINTED BY: mds007

;OBJECT DETECT;INF_H/B;32SPF843902;060803ZJAN99;MANCON_3;HAVE DETECTED MOUNTAIN AT 32SPF849926; PRINTED BY: mds007

;VISUAL DETECT;INF_H/B;32SPF843902;060803ZJAN99;MANCON_3;HAVE DETECTED SECTION SIZED INFANTRY UNIT AT 32SPF842928, TRACK 2

, ID=HILLIFY HMMWV-.50CAL-MG 1; HMMWV-40MM-MG 1; TROOPS 2; PRINTED BY: mds007

;VISUAL DETECT;INF_A/B;32SPF858901;060803ZJAN99;MANCON_3;HAVE DETECTED SECTION SIZED INFANTRY UNIT AT 32SPF842929, TRACK 2

, ID=HILLIFY HMMWV-.50CAL-MG 1; HMMWV-40MM-MG 1; PRINTED BY: mds007

;AIR RTE POINT;BCAS1;32SPG901122;060803ZJAN99;MANCON_3;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;BCAS1;32SPG901122;060803ZJAN99;MANCON_3;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060804ZJAN99;MANCON_4;AIR TRACK AL (FCAS9) DETECTED AT 32SPG970155; TRACK IS FRIENDLY PRINTED BY: mds007

;UNIT DEFENSIVE MISSION;SOF;32SPG726000;060804ZJAN99;MANCON_1;HAS ASSUMED WITHDRAW MISSION DUE TO CPR (0.02048<=0.17000)
PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; INF_H/B; 32SPF843902; 060804ZJAN99; MANCON_3; HAS INITIATED ENGAGEMENT WITH HILLIFY PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_A/B;32SPF858901;060804ZJAN99;MANCON_3;HAS INITIATED ENGAGEMENT WITH HILLIFY PRINTED BY: mds007

;UNIT MOVE ;SOF;32SPG726000;060804ZJAN99;MANCON_1;COMMENCING MOVEMENT at 060804ZJAN99
PRINTED BY: mds007

;SHIP MOVE;SUB1;32SQG110095;060804ZJAN99;AGCON_1;HAVE COMMENCED MOVEMENT PRINTED BY: mds007

;UNIT DESTINATION ;LDVEH1;32SPG738006;060804ZJAN99;AGCON_1;HAVE REACHED ASSIGNED DESTINATION PRINTED BY: mds007

;AIR RTE POINT;FCAS6;32SQG080209;060804ZJAN99;MANCON_1;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT;BCAS2;32SPF728830;060804ZJAN99;MANCON_3;AIR MISSION HAS REACHED ATTACK POINT

PRINTED BY: mds007

;STATUS CHANGE;AGAIR;32SPF728830;060804ZJAN99;AGCON_1; RECEIVING AIR-TO-SURFACE FIRE

PRINTED BY: mds007

;STATUS CHANGE;AGSUP;32SPF728830;060804ZJAN99;AGCON_1; RECEIVING AIR-TO-SURFACE FIRE

PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_BLUE; AIR_TO_SURFACE; 32SPF728830; 060804ZJAN99; MANCON 3; BCAS2;

UNIT AGSUP; TROOPS 8 WIA,

UNIT AGAIR; TROOPS 8 WIA, 3 KIA

PRINTED BY: mds007

; ASSESSMENT

REPORT; INF_A/B; AIR_TO_SURFACE; 32SPF728830; 060804ZJAN99; MANCON 3; BCAS2;

UNIT AGSUP; TROOPS 8 WIA,

UNIT AGAIR; TROOPS 8 WIA, 3 KIA

PRINTED BY: mds007

; ASSESSMENT

REPORT; AGSUP; AIR_TO_SURFACE; 32SPF728830; 060804ZJAN99; AGCON_1; BCAS2;

UNIT AGSUP; TROOPS 8 WIA,

PRINTED BY: mds007

; ASSESSMENT

REPORT; AGAIR; AIR_TO_SURFACE; 32SPF728830; 060804ZJAN99; AGCON 1; BCAS2;

UNIT AGAIR; TROOPS 8 WIA, 3 KIA

PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060804ZJAN99;MANCON_4;SURFACE TRACK AM (SUB1) DETECTED AT 32SQG110095; TRACK IS HOSTILE

PRINTED BY: mds007

;VISUAL DETECT;HILLIFY;32SPF841931;060804ZJAN99;AGCON_1;HAVE DETECTED A SHIP AT 32SPF854927, TRACK 4

, ID=AAAV/P AAAV 1; PRINTED BY: mds007

;VISUAL DETECT CHANGE;HILLIFY;32SPF841931;060804ZJAN99;AGCON_1;DETECTION AT 32SPF839902 IS A COMPANY SIZED INFANTRY UNIT, TRACK 3

, ID=INF A/B TROOPS 168; PRINTED BY: mds007

;VISUAL DETECT CHANGE;SOF;32SPF726999;060804ZJAN99;MANCON_1;DETECTION AT 32SPG737005 IS A COMPANY SIZED LIGHT ARMOR UNIT, TRACK 2

, ID=LDVEH1 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63;

PRINTED BY: mds007

;VISUAL DETECT CHANGE;INF A/B;32SPF838900;060804ZJAN99;MANCON_3;DETECTION AT 32SPF841928 IS A SECTION SIZED INFANTRY UNIT, TRACK 2

, ID=HILLIFY HMMWV-.50CAL-MG 1; HMMWV-40MM-MG 1; TROOPS 2; PRINTED BY: mds007

;AIR RTE POINT; FCAS7; 32SQG080209; 060804ZJAN99; MANCON_1; AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR MSN LAUNCH;BOGEY1;32SPF602645;060804ZJAN99;AGCON_1;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR RTE POINT;FCAS8;32SQG080209;060804ZJAN99;MANCON_1;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT; PCAS1; 32SPG901122; 060804ZJAN99; MANCON_4, MANCON_1; AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;PCAS1;32SPG901122;060804ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED:

PRINTED BY: mds007

;AIR RTE POINT; FCAS9; 32SQG080209; 060804ZJAN99; MANCON_1; AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT; PCAS2; 32SPG901122; 060804ZJAN99; MANCON_4, MANCON_1; AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;PCAS2;32SPG901122;060804ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0
PRINTED BY: mds007

;AIR RTE POINT;BCAS3;32SPG901122;060804ZJAN99;MANCON_3;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;BCAS3;32SPG901122;060804ZJAN99;MANCON_3;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;AIR MSN LAUNCH;ASW;32SQG110095;060805ZJAN99;MANCON_2;CRUISE MISSILE HAS LAUNCHED PRINTED BY: mds007

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;AIR TRK DATA;LHA;32SPF962990;060805ZJAN99;MANCON 4;AIR TRACK AN (ASW)
 DETECTED AT 32SQG063063; TRACK IS FRIENDLY
 PRINTED BY: mds007
 ; VISUAL DETECT; HILLIFY; 32SPF841931; 060805ZJAN99; AGCON 1; HAVE DETECTED COMPANY
 SIZED INFANTRY UNIT AT 32SPF846924, TRACK 5
  ID=INF A/P TROOPS 182; SMAW 6;
 PRINTED BY: mds007
 ;OBJECT DETECT;FROG1;32SPF816937;060805ZJAN99;MANCON 2;HAVE DETECTED MOUNTAIN
 AT 32SPF836930;
 PRINTED BY: mds007
 ; VISUAL DETECT; FROG1; 32SPF816937; 060805ZJAN99; MANCON 2; HAVE DETECTED COMPANY
 SIZED INFANTRY UNIT AT 32SPF846923, TRACK 2
  ID=INF A/P
 PRINTED BY: mds007
 ; VISUAL DETECT; FROG1; 32SPF816937; 060805ZJAN99; MANCON 2; HAVE DETECTED A SHIP AT
 32SPF854927, TRACK 3
  ID=AAAV/P
 PRINTED BY: mds007
 ;OBJECT DETECT;INF_A/P;32SPF847923;060805ZJAN99;MANCON_4;HAVE DETECTED
 MOUNTAIN AT 32SPF849927;
 PRINTED BY: mds007
 ; VISUAL DETECT; INF_A/P; 32SPF847923; 060805ZJAN99; MANCON_4; HAVE DETECTED SECTION
 SIZED ARTILLERY UNIT AT 32SPF818937, TRACK 2
  ID=FROG1 FROG-7-SSM 1;
PRINTED BY: mds007
 ; VISUAL DETECT; INF A/P; 32SPF847923; 060805ZJAN99; MANCON 4; HAVE DETECTED SECTION
 SIZED INFANTRY UNIT AT 32SPF843929, TRACK 3
  ID=HILLIFY HMMWV-.50CAL-MG 1; HMMWV-40MM-MG 1; TROOPS 2;
 PRINTED BY: mds007
 ; VISUAL DETECT STATUS; HILLIFY; 32SPF841931; 060805ZJAN99; AGCON 1; DETECTION AT
 32SPF836877 HAS BEEN TEMPORARILY LOST, TRACK 3
  ID=INF A/B TROOPS 168;
 PRINTED BY: mds007
 ; VISUAL DETECT STATUS; SOF; 32SPF726999; 060805ZJAN99; MANCON 1; DETECTION AT
 32SPG924101 HAS BEEN TEMPORARILY LOST, TRACK 2
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, ID=LDVEH1 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63;

PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_A/B;32SPF808888;060805ZJAN99;MANCON_3;DETECTION AT 32SPF814941 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=HILLIFY HMMWV-.50CAL-MG 1; HMMWV-40MM-MG 1; TROOPS 2; PRINTED BY: mds007

;AIR RTE POINT;BCAS4;32SPG901122;060805ZJAN99;MANCON_3;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;BCAS4;32SPG901122;060805ZJAN99;MANCON_3;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;AIR RTE POINT;ASW;32SQG097097;060805ZJAN99;MANCON_2;CRUISE MISSILE HAS REACHED ATTACK POINT PRINTED BY: mds007

;STATUS CHANGE;SUB1;32SQG097097;060805ZJAN99;AGCON_1; UNDER AIR ATTACK PRINTED BY: mds007

;ASSESSMENT REPORT;FFG;AIR TO_SURFACE;32SQG097097;060805ZJAN99;MANCON_2;

NO ASSESSMENT; Msn# ASW

PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060806ZJAN99;MANCON_4;AIR TRACK AO (BOGEY1)
DETECTED AT 32SPF769737; TRACK IS HOSTILE
PRINTED BY: mds007

;AIR MSN ILLUMINATED;BOGEY1;32SPF769737;060806ZJAN99;AGCON_1;AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR PRINTED BY: mds007

;VISUAL DETECT;TANK1;32SPF761891;060806ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED ENGINEER UNIT AT 32SPF799887, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; X-TANK 4; HMMWV 9; SEE 2; PRINTED BY: mds007

;VISUAL DETECT;ENG;32SPF801887;060806ZJAN99;MANCON_1;HAVE DETECTED COMPANY SIZED TANK UNIT AT 32SPF764890, TRACK 2

, ID=TANK1 HMMWV-TOW 8; M1A1 14; PRINTED BY: mds007

;VISUAL DETECT STATUS;HILLIFY;32SPF841931;060806ZJAN99;AGCON_1;DETECTION AT 32SPF845887 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=INF_H/B TROOPS 182; PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; HILLIFY; 32SPF841931; 060806ZJAN99; AGCON_1; IS ENGAGED BY INF_H/B

PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE;HILLIFY;32SPF841931;060806ZJAN99;AGCON_1;IS ENGAGED BY INF A/B

PRINTED BY: mds007

;UNIT DEFENSIVE MISSION; HILLIFY; 32SPF841931; 060806ZJAN99; AGCON_1; HAS ASSUMED WITHDRAW MISSION DUE TO CPR (0.01604<=0.17000) PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;HILLIFY;32SPF841931;060806ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_H/B PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_H/B;32SPF822892;060806ZJAN99;MANCON_3;HAS TERMINATED ENGAGEMENT, NO LOS WITH HILLIFY PRINTED BY: mds007

; REPORT; GROUND_ENGAGEMENT 1; 32SPF841931; 060806ZJAN99; AGCON 1, MANCON 3;

NO ASSESSMENT;

PRINTED BY: mds007

;UNIT BARRIER STATUS;HILLIFY;32SPF841931;060806ZJAN99;AGCON_1;WITHIN BARRIER MOUNTAIN NAMED HILL PRINTED BY: mds007

;UNIT MOVE; HILLIFY; 32SPF841931; 060806ZJAN99; AGCON_1; COMMENCING MOVEMENT at 060806ZJAN99

PRINTED BY: mds007

;UNIT MOVE; HILLIFY; 32SPF841931; 060806ZJAN99; AGCON_1; BARRIER IMPASSABLE UNIT HALTED, AWAITING ORDERS PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;HILLIFY;32SPF841931;060806ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_A/B PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE;INF_A/B;32SPF808888;060806ZJAN99;MANCON_3;HAS TERMINATED ENGAGEMENT, NO LOS WITH HILLIFY PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;HILLIFY;32SPF841931;060806ZJAN99;AGCON_1;HAS INITIATED ENGAGEMENT WITH INF_A/P PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; INF A/P; 32SPF847923; 060806ZJAN99; MANCON_4; HAS INITIATED ENGAGEMENT WITH HILLIFY PRINTED BY: mds007

;AIR RTE POINT;PCAS3;32SPF841930;060806ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS REACHED ATTACK POINT PRINTED BY: mds007

;STATUS CHANGE;HILLIFY;32SPF841931;060806ZJAN99;AGCON_1; RECEIVING AIR-TO-SURFACE FIRE
PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_PURPLE; AIR_TO_SURFACE; 31NAA661000; 060806ZJAN99; MANCON 4; PCAS3;

CE_PRODUCT NOR BCH; No damage assessed.

CE_PRODUCT NORTH RD; No damage assessed.

HMMWV-.50CAL-MG 1 M KILLED,

;ASSESSMENT REPORT;SOF;AIR_TO_SURFACE;31NAA661000;060806ZJAN99;MANCON_1;PCAS3;

CE PRODUCT NOR BCH; No damage assessed.

CE PRODUCT NORTH RD; No damage assessed.

HMMWV-.50CAL-MG 1 M_KILLED,

PRINTED BY: mds007

;AIR MSN LAUNCH;ASW1;32SQG084099;060806ZJAN99;MANCON_2;CRUISE MISSILE HAS LAUNCHED

PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060806ZJAN99;MANCON_4;AIR TRACK AP (ASW1) DETECTED AT 32SQG057070; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR RTE POINT;BCAS5;32SPF816936;060806ZJAN99;MANCON_3;AIR MISSION HAS REACHED ATTACK POINT PRINTED BY: mds007

;STATUS CHANGE;FROG1;32SPF816937;060806ZJAN99;MANCON_2; RECEIVING AIR-TO-SURFACE FIRE PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_BLUE; AIR_TO_SURFACE; 31NAA661000; 060806ZJAN99; MANCON_3; BCAS5;

CE PRODUCT NORTH RD; No damage assessed.

FROG-7-SSM 1 M_KILLED, PRINTED BY: mds007

; ASSESSMENT

REPORT; INF A/B; AIR_TO_SURFACE; 31NAA661000; 060806ZJAN99; MANCON_3; BCAS5;

CE PRODUCT NORTH RD; No damage assessed.

FROG-7-SSM 1 M_KILLED, PRINTED BY: mds007

;AIR RTE POINT;BCAS2;32SPG901122;060806ZJAN99;MANCON_3;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;BCAS2;32SPG901122;060806ZJAN99;MANCON_3;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;VISUAL DETECT;SOF;32SPF726998;060806ZJAN99;MANCON_1;HAVE DETECTED COMPANY SIZED LIGHT_ARMOR UNIT AT 32SPF726981, TRACK 3

, ID=LDVEH2 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63;

PRINTED BY: mds007

;AIR MSN LAUNCH;BCAS7;32SPG901122;060806ZJAN99;MANCON_3;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR RTE POINT;ASW1;32SQG084099;060806ZJAN99;MANCON_2;CRUISE MISSILE HAS REACHED ATTACK POINT PRINTED BY: mds007

; ASSESSMENT REPORT; FFG; AIR_TO_SURFACE; 32SQG084099; 060806ZJAN99; MANCON 2;

NO ASSESSMENT; Msn# ASW1

PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060807ZJAN99;MANCON_4;AIR TRACK AQ (BCAS7) DETECTED AT 32SPG915084; TRACK IS FRIENDLY PRINTED BY: mds007

; ASSESSMENT REPORT; CG; SURFACE_TO_AIR; 32SPF797882; 060807ZJAN99; MANCON 2; CG;

AIR MSN BOGEY1; SU-24-FENCER 2 K_KILLED, PRINTED BY: mds007

; ASSESSMENT REPORT; BOGEY1; SURFACE_TO_AIR; 32SPF797882; 060807ZJAN99; AGCON 1; CG;

UNIT AGAIR1; SU-24-FENCER 2 K_KILLED, PRINTED BY: mds007

;AD ENGAGE END;CG;32SQF128935;060807ZJAN99;MANCON_2;TERMINATING ENGAGEMENT WITH TARGET (BOGEY1); ENEMY DESTROYED PRINTED BY: mds007

;AIR MSN CANX;BOGEY1;32SPF797882;060807ZJAN99;AGCON_1;AIR MISSION CANCELED DUE TO LOSS OF AIRCRAFT PRINTED BY: mds007

;AIRCRAFT STAT;BOGEY1;32SPF797882;060807ZJAN99;AGCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 0; NON MISSION CAPABLE: 0; DESTROYED: 2 PRINTED BY: mds007

;AIR RTE POINT;BCAS6;32SPF761891;060807ZJAN99;MANCON_3;AIR MISSION HAS REACHED ATTACK POINT PRINTED BY: mds007

;STATUS CHANGE;TANK1;32SPF761891;060807ZJAN99;AGCON_1; RECEIVING AIR-TO-SURFACE FIRE PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_BLUE; AIR_TO_SURFACE; 31NAA661000; 060807ZJAN99; MANCON_3; BCAS6;

CE PRODUCT SOUTH RD; No damage assessed.

TROOPS 6 WIA, 2 KIA

M1A1 1 K_KILLED, 1 M_KILLED, 1 F_KILLED

HMMWV-TOW 1 M_KILLED, PRINTED BY: mds007

; ASSESSMENT

REPORT; INF A/B; AIR TO SURFACE; 31NAA661000; 060807ZJAN99; MANCON 3; BCAS6;

CE PRODUCT SOUTH RD; No damage assessed.

TROOPS 6 WIA, 2 KIA

M1A1 1 K KILLED, 1 M KILLED, 1 F KILLED

HMMWV-TOW 1 M_KILLED, PRINTED BY: mds007

;AIR RTE POINT;FCAS1;32SPG901122;060807ZJAN99;MANCON_1;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;FCAS1;32SPG901122;060807ZJAN99;MANCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;VISUAL DETECT;FROG2;32SPF824905;060807ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF846921, TRACK 2

, ID=INF_A/P TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT;FROG2;32SPF824905;060807ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED ENGINEER UNIT AT 32SPF802887, TRACK 3

, ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82; PRINTED BY: mds007

;VISUAL DETECT;FROG2;32SPF824905;060807ZJAN99;AGCON_1;HAVE DETECTED A SHIP AT 32SPF854926, TRACK 4

, ID=AAAV/P AAAV 1; PRINTED BY: mds007

; VISUAL DETECT; FROG2; 32SPF824905; 060807ZJAN99; AGCON_1; HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF823894, TRACK 5

, ID=INF_H/B TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT;FROG2;32SPF824905;060807ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF810889, TRACK 6

, ID=INF_A/B TROOPS 168; PRINTED BY: mds007

;VISUAL DETECT;ENG;32SPF801887;060807ZJAN99;MANCON_1;HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPF824904, TRACK 3

, ID=FROG2 FROG-7-SSM 1; TROOPS 4;

; VISUAL DETECT; INF_H/B; 32SPF822892; 060807ZJAN99; MANCON_3; HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPF824902, TRACK 3

, ID=FROG2 FROG-7-SSM 1; TROOPS 4; PRINTED BY: mds007

;VISUAL DETECT;INF_A/B;32SPF808888;060807ZJAN99;MANCON_3;HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPF823903, TRACK 3

, ID=FROG2 FROG-7-SSM 1; TROOPS 4; PRINTED BY: mds007

; VISUAL DETECT; INF_A/P; 32SPF847923; 060807ZJAN99; MANCON_4; HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPF826906, TRACK 4

, ID=FROG2 FROG-7-SSM 1; TROOPS 4; PRINTED BY: mds007

;AIR MSN LAUNCH;UA18;32SPF625617;060807ZJAN99;AGCON_1;AIR MISSION HAS LAUNCHED PRINTED BY: mds007

;AIR MSN LAUNCH;BCAS8;32SPG901122;060807ZJAN99;MANCON_3;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH;BCAS9;32SPG901122;060807ZJAN99;MANCON_3;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH;BCAS10;32SPG901122;060807ZJAN99;MANCON_3;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR RTE POINT;PCAS3;32SPF761891;060808ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS REACHED ATTACK POINT PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060808ZJAN99;MANCON_4;AIR TRACK AR (BCAS10) DETECTED AT 32SPG914087; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060808ZJAN99;MANCON_4;AIR TRACK AS (BCAS9) DETECTED AT 32SPG926052; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060808ZJAN99;MANCON_4;AIR TRACK AT (BCAS8)
DETECTED AT 32SPG898053; TRACK IS FRIENDLY
PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060808ZJAN99;MANCON_4;AIR TRACK AU (UA18) DETECTED AT 32SPF611680; TRACK IS SUSPECT PRINTED BY: mds007

;AIR MSN ILLUMINATED;UA18;32SPF611680;060808ZJAN99;AGCON_1;AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR PRINTED BY: mds007

;UNIT DEFENSIVE MISSION ;FROG2;32SPF824905;060808ZJAN99;AGCON_1;HAS ASSUMED WITHDRAW MISSION DUE TO CPR (0.00000<=0.17000)

; ENGAGEMENT STATUS CHANGE ; INF_H/B; 32SPF822892; 060808ZJAN99; MANCON_3; HAS

INITIATED ENGAGEMENT WITH FROG2

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; INF_A/B; 32SPF808888; 060808ZJAN99; MANCON_3; HAS

INITIATED ENGAGEMENT WITH FROG2

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; INF_A/P; 32SPF847923; 060808ZJAN99; MANCON 4; HAS

INITIATED ENGAGEMENT WITH FROG2

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; FROG2; 32SPF824905; 060808ZJAN99; AGCON_1; IS ENGAGED BY

INF H/B

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; FROG2; 32SPF824905; 060808ZJAN99; AGCON 1; IS ENGAGED BY

· INF A/B

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; FROG2; 32SPF824905; 060808ZJAN99; AGCON_1; IS ENGAGED BY

INF A/P

PRINTED BY: mds007

;UNIT CASUALTY LIMIT ;FROG2;32SPF824905;060808ZJAN99;AGCON_1;HAS REACHED

EFFECTIVE CASUALTY LIMIT

PRINTED BY: mds007

;UNIT MOVE ;FROG2;32SPF824905;060808ZJAN99;AGCON 1;COMMENCING MOVEMENT at

060808ZJAN99

PRINTED BY: mds007

; REPORT; GROUND ENGAGEMENT

2;32SPF808888;060808ZJAN99;MANCON 4,AGCON 1,MANCON 3;

Initial engagement times:

INF A/P; 060806ZJAN99

HILLIFY; 060806ZJAN99

FROG2; 060808ZJAN99

INF H/B; 060808ZJAN99

INF A/B; 060808ZJAN99

Cumulative losses:

CE PRODUCT SOUTH RD; No damage assessed.

TROOPS 3 WIA,

TROOPS 2 WIA,

CE PRODUCT NOR BCH; No damage assessed.

CE PRODUCT NORTH RD; No damage assessed.

Incremental losses (increases since the last report)

TROOPS 2 WIA,

TROOPS 3 WIA,

PRINTED BY: mds007

;AIR RTE POINT;BCAS5;32SPG901122;060808ZJAN99;MANCON_3;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;BCAS5;32SPG901122;060808ZJAN99;MANCON_3;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

; VISUAL DETECT; HILLIFY; 32SPF841931; 060808ZJAN99; AGCON_1; HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF842931, TRACK 6

, ID=INF_H/P TROOPS 182; SMAW 6; PRINTED BY: mds007

;VISUAL DETECT;SILK1;32SPF828968;060808ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF843934, TRACK 2

, ID=INF_H/P PRINTED BY: mds007

;VISUAL DETECT;FROG1;32SPF816937;060808ZJAN99;MANCON_2;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF842933, TRACK 4

, ID=INF_H/P TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT;FROG2;32SPF825905;060808ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF842931, TRACK 7

, ID=INF_H/P PRINTED BY: mds007

;VISUAL DETECT; TANK1;32SPF761891;060808ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF776883, TRACK 3

, ID=INF_H/B TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT;TANK1;32SPF761891;060808ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF781881, TRACK 4

, ID=INF_A/B TROOPS 168; PRINTED BY: mds007

;VISUAL DETECT;INF_H/B;32SPF778883;060808ZJAN99;MANCON_3;HAVE DETECTED COMPANY SIZED TANK UNIT AT 32SPF764890, TRACK 4

, ID=TANK1 HMMWV-TOW 8; M1A1 13; TROOPS 7; PRINTED BY: mds007

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; VISUAL DETECT; INF_A/B; 32SPF783881; 060808ZJAN99; MANCON 3; HAVE DETECTED COMPANY
SIZED TANK UNIT AT 32SPF764890, TRACK 4
 ID=TANK1 HMMWV-TOW 8; M1A1 13; TROOPS 7;
PRINTED BY: mds007
 ; VISUAL DETECT; INF H/P; 32SPF843933; 060808ZJAN99; MANCON 4; HAVE DETECTED SECTION
SIZED ARTILLERY UNIT AT 32SPF826906, TRACK 2
  ID=FROG2 FROG-7-SSM 1;
PRINTED BY: mds007
 ; VISUAL DETECT; INF H/P; 32SPF843933; 060808ZJAN99; MANCON 4; HAVE DETECTED SECTION
SIZED ARTILLERY UNIT AT 32SPF818937, TRACK 3
 ID=FROG1 FROG-7-SSM 1; TROOPS 4;
PRINTED BY: mds007
 ; VISUAL DETECT; INF_H/P; 32SPF843933; 060808ZJAN99; MANCON 4; HAVE DETECTED SECTION
SIZED INFANTRY UNIT AT 32SPF843932, TRACK 4
  ID=HILLIFY HMMWV-.50CAL-MG 1; HMMWV-40MM-MG 1; TROOPS 2;
PRINTED BY: mds007
 ; VISUAL DETECT; INF H/P; 32SPF843933; 060808ZJAN99; MANCON 4; HAVE DETECTED SECTION
SIZED ARTILLERY UNIT AT 32SPF829966, TRACK 5
 , ID=SILK1 D-20 2;
PRINTED BY: mds007
 ; VISUAL DETECT STATUS; INF H/B; 32SPF778883; 060808ZJAN99; MANCON 3; DETECTION AT
32SPF813954 HAS BEEN TEMPORARILY LOST, TRACK 2
  ID=HILLIFY HMMWV-.50CAL-MG 1; HMMWV-40MM-MG 1; TROOPS 2;
PRINTED BY: mds007
 ; VISUAL DETECT STATUS; FROG2; 32SPF825905; 060808ZJAN99; AGCON 1; DETECTION AT
32SPF855927 HAS BEEN TEMPORARILY LOST, TRACK 4
 ID=AAAV/P AAAV 1;
PRINTED BY: mds007
 ; VISUAL DETECT STATUS; FROG2; 32SPF825905; 060808ZJAN99; AGCON 1; DETECTION AT
32SPF817854 HAS BEEN TEMPORARILY LOST, TRACK 5
 ID=INF H/B TROOPS 182;
PRINTED BY: mds007
 ; VISUAL DETECT STATUS; FROG2; 32SPF825905; 060808ZJAN99; AGCON 1; DETECTION AT
32SPF792870 HAS BEEN TEMPORARILY LOST, TRACK 6
 ID=INF A/B TROOPS 168;
PRINTED BY: mds007
 ; VISUAL DETECT STATUS; INF H/B; 32SPF778883; 060808ZJAN99; MANCON 3; DETECTION AT
32SPF786933 HAS BEEN TEMPORARILY LOST, TRACK 3
 ID=FROG2 FROG-7-SSM 1; TROOPS 4;
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;VISUAL DETECT STATUS;INF_A/B;32SPF783881;060808ZJAN99;MANCON_3;DETECTION AT 32SPF816915 HAS BEEN TEMPORARILY LOST, TRACK 3

, ID=FROG2 FROG-7-SSM 1; TROOPS 4; PRINTED BY: mds007

;AIR MSN LAUNCH;ASW2;32SQG058102;060808ZJAN99;MANCON_2;CRUISE MISSILE HAS LAUNCHED

PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060808ZJAN99;MANCON_4;AIR TRACK AV (ASW2) DETECTED AT 32SQG047077; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR RTE POINT;BCAS7;32SPF761890;060808ZJAN99;MANCON_3;AIR MISSION HAS REACHED ATTACK POINT PRINTED BY: mds007

;STATUS CHANGE;TANK1;32SPF761891;060808ZJAN99;AGCON_1; RECEIVING AIR-TO-SURFACE FIRE PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_BLUE; AIR_TO_SURFACE; 31NAA661000; 060808ZJAN99; MANCON 3; BCAS7;

CE_PRODUCT SOUTH RD; No damage assessed.

TROOPS 1 WIA, 1 KIA

HMMWV-TOW 1 K_KILLED, PRINTED BY: mds007

; ASSESSMENT

REPORT; INF_A/B; AIR_TO_SURFACE; 31NAA661000; 060808ZJAN99; MANCON 3; BCAS7;

CE_PRODUCT SOUTH RD; No damage assessed.

TROOPS 1 WIA, 1 KIA

HMMWV-TOW 1 K_KILLED, PRINTED BY: mds007

;AIR RTE POINT;ASW2;32SQG058102;060808ZJAN99;MANCON_2;CRUISE MISSILE HAS REACHED ATTACK POINT PRINTED BY: mds007

; ASSESSMENT REPORT; FFG; AIR_TO_SURFACE; 32SQG058102; 060808ZJAN99; MANCON 2; ASW2;

UNIT SUB1; TROOPS 6 WIA, 3 KIA

UNIT SUB1; SUBMARINE 1 M_KILLED, PRINTED BY: mds007

;ASSESSMENT REPORT;SUB1;AIR_TO_SURFACE;32SQG058102;060808ZJAN99;AGCON_1;ASW2; UNIT SUB1; TROOPS 6 WIA, 3 KIA UNIT SUB1; SUBMARINE 1 M_KILLED,

PRINTED BY: mds007

;AIR RTE POINT;BCAS9;32SPF959958;060808ZJAN99;MANCON_3;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT;BCAS10;32SPF959958;060808ZJAN99;MANCON_3;AIR MISSION HAS REACHED ORBIT POINT PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; HILLIFY; 32SPF841931; 060809ZJAN99; AGCON_1; HAS INITIATED ENGAGEMENT WITH INF_H/P PRINTED BY: mds007

;UNIT DEFENSIVE MISSION ;FROG2;32SPF825905;060809ZJAN99;AGCON_1;HAS ASSUMED DEFENSIVE MISSION PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;FROG2;32SPF825905;060809ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_H/B PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_H/B;32SPF778883;060809ZJAN99;MANCON_3;HAS TERMINATED ENGAGEMENT, NO LOS WITH FROG2 PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;FROG2;32SPF825905;060809ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_A/B PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_A/B;32SPF783881;060809ZJAN99;MANCON_3;HAS TERMINATED ENGAGEMENT, NO LOS WITH FROG2 PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_H/B;32SPF778883;060809ZJAN99;MANCON_3;HAS INITIATED ENGAGEMENT WITH TANK1 PRINTED BY: mds007

;VISUAL DETECT;HILLIFY;32SPF841931;060809ZJAN99;AGCON_1;HAVE DETECTED SQUADRON SIZED AVIATION UNIT AT 32SPF843929, TRACK 7

, ID=VMV_PURPLE MV-22 24; TROOPS 209; PRINTED BY: mds007

;VISUAL DETECT;FROG1;32SPF816937;060809ZJAN99;MANCON_2;HAVE DETECTED SQUADRON SIZED AVIATION UNIT AT 32SPF843929, TRACK 5

, ID=VMV_PURPLE MV-22 24; TROOPS 209; PRINTED BY: mds007

;VISUAL DETECT;FROG1;32SPF816937;060809ZJAN99;MANCON_2;HAVE DETECTED COMPANY SIZED ENGINEER UNIT AT 32SPF782947, TRACK 6

, ID=ENG 5.0-TRUCK 3; MCLIC 7; X-TANK 4; HMMWV 9; SEE 2; PRINTED BY: mds007

;VISUAL DETECT;FROG2;32SPF825905;060809ZJAN99;AGCON_1;HAVE DETECTED SQUADRON SIZED AVIATION UNIT AT 32SPF843927, TRACK 8

, ID=VMV_PURPLE MV-22 24; TROOPS 209;

;VISUAL DETECT;VMV_PURPLE;32SPF844928;060809ZJAN99;MANCON_4;HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPF826907, TRACK 2

, ID=FROG2 FROG-7-SSM 1; TROOPS 2; PRINTED BY: mds007

;VISUAL DETECT;VMV_PURPLE;32SPF844928;060809ZJAN99;MANCON_4;HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPF818937, TRACK 3

, ID=FROG1 FROG-7-SSM 1; TROOPS 4; PRINTED BY: mds007

; VISUAL DETECT; VMV_PURPLE; 32SPF844928; 060809ZJAN99; MANCON_4; HAVE DETECTED SECTION SIZED INFANTRY UNIT AT 32SPF843930, TRACK 4

, ID=HILLIFY HMMWV-.50CAL-MG 1; HMMWV-40MM-MG 1; TROOPS 2; PRINTED BY: mds007

;VISUAL DETECT;VMV_PURPLE;32SPF844928;060809ZJAN99;MANCON_4;HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPF829965, TRACK 5

, ID=SILK1 D-20 2; PRINTED BY: mds007

;OBJECT DETECT;ENG;32SPF780947;060809ZJAN99;MANCON 1;HAVE DETECTED ANTI_PERSONNEL Minefield [% 0 DAMAGED] AT 32SPF776953; PRINTED BY: mds007

;VISUAL DETECT;ENG;32SPF780947;060809ZJAN99;MANCON_1;HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPF815938, TRACK 4

, ID=FROG1 FROG-7-SSM 1; PRINTED BY: mds007

;VISUAL DETECT STATUS;TANK1;32SPF522895;060809ZJAN99;AGCON_1;DETECTION AT 32SPF784868 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; X-TANK 4; HMMWV 9; SEE 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;ENG;32SPF780947;060809ZJAN99;MANCON_1;DETECTION AT 32SPF518974 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=TANK1 HMMWV-TOW 8; M1A1 13; PRINTED BY: mds007

;VISUAL DETECT STATUS;FROG2;32SPF825905;060809ZJAN99;AGCON_1;DETECTION AT 32SPF776867 HAS BEEN TEMPORARILY LOST, TRACK 3

, ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82; PRINTED BY: mds007

;VISUAL DETECT STATUS;ENG;32SPF780947;060809ZJAN99;MANCON_1;DETECTION AT 32SPF829986 HAS BEEN TEMPORARILY LOST, TRACK 3

, ID=FROG2 FROG-7-SSM 1; TROOPS 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;TANK1;32SPF522895;060809ZJAN99;AGCON_1;DETECTION AT 32SPF754785 HAS BEEN TEMPORARILY LOST, TRACK 3

, ID=INF_H/B TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT STATUS;TANK1;32SPF522895;060809ZJAN99;AGCON_1;DETECTION AT 32SPF760786 HAS BEEN TEMPORARILY LOST, TRACK 4

, ID=INF_A/B TROOPS 168; PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_H/B;32SPF778883;060809ZJAN99;MANCON_3;DETECTION AT 32SPF546992 HAS BEEN TEMPORARILY LOST, TRACK 4

, ID=TANK1 HMMWV-TOW 8; M1A1 13; TROOPS 7; PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_A/B;32SPF783881;060809ZJAN99;MANCON_3;DETECTION AT 32SPF545989 HAS BEEN TEMPORARILY LOST, TRACK 4

, ID=TANK1 HMMWV-TOW 8; M1A1 13; TROOPS 7; PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_A/B;32SPF783881;060809ZJAN99;MANCON_3;HAS INITIATED ENGAGEMENT WITH TANK1
PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; INF_H/P; 32SPF843933; 060809ZJAN99; MANCON_4; HAS INITIATED ENGAGEMENT WITH FROG1
PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; INF_H/P; 32SPF843933; 060809ZJAN99; MANCON_4; HAS INITIATED ENGAGEMENT WITH HILLIFY PRINTED BY: mds007

;SHIP MOVE;SUB1;32SQG058102;060809ZJAN99;AGCON_1;UNABLE TO MOVE - SHIP DAMAGED PRINTED BY: mds007

;AIR RTE POINT;BCAS8;32SPF824905;060809ZJAN99;MANCON_3;AIR MISSION HAS REACHED ATTACK POINT PRINTED BY: mds007

;STATUS CHANGE;FROG2;32SPF825905;060809ZJAN99;AGCON_1; RECEIVING AIR-TO-SURFACE FIRE PRINTED BY: mds007

; ASSESSMENT REPORT; VF_BLUE; AIR_TO_SURFACE; 31NAA661000; 060809ZJAN99; MANCON_3; BCAS8;

CE_PRODUCT SOUTH RD; No damage assessed.

FROG-7-SSM 1 F_KILLED PRINTED BY: mds007

;ASSESSMENT REPORT;INF A/B;AIR TO SURFACE;31NAA661000;060809ZJAN99;MANCON 3;BCAS8;

CE_PRODUCT SOUTH RD; No damage assessed.

FROG-7-SSM 1 F_KILLED PRINTED BY: mds007

;AIR RTE POINT;BCAS6;32SPG901122;060809ZJAN99;MANCON_3;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;BCAS6;32SPG901122;060809ZJAN99;MANCON_3;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;AIR RTE POINT;PCAS3;32SPG901122;060809ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;PCAS3;32SPG901122;060809ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0

PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;HILLIFY;32SPF841931;060810ZJAN99;AGCON_1;HAS INITIATED ENGAGEMENT WITH VMV_PURPLE PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; VMV PURPLE; 32SPF844928; 060810ZJAN99; MANCON_4; HAS INITIATED ENGAGEMENT WITH HILLIFY PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE;FROG1;32SPF816937;060810ZJAN99;MANCON_2;IS ENGAGED BY INF_H/P PRINTED BY: mds007

;STATUS CHANGE;INF_H/P;32SPF843933;060810ZJAN99;MANCON_4; RECEIVING INDIRECT FIRE

PRINTED BY: mds007

;VISUAL DETECT;SILK1;32SPF828968;060810ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF829932, TRACK 3

, ID=INF_A/P PRINTED BY: mds007

;VISUAL DETECT;INF_A/P;32SPF828929;060810ZJAN99;MANCON_4;HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPF828965, TRACK 5

, ID=SILK1 D-20 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;FROG1;32SPF522805;060810ZJAN99;MANCON_2;DETECTION AT 32SPF819660 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=INF_A/P PRINTED BY: mds007

;VISUAL DETECT STATUS;FROG1;32SPF522805;060810ZJAN99;MANCON_2;DETECTION AT 32SPF863708 HAS BEEN TEMPORARILY LOST, TRACK 3

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ID=AAAV/P
PRINTED BY: mds007
; VISUAL DETECT STATUS; INF A/P; 32SPF828929; 060810ZJAN99; MANCON 4; DETECTION AT
32SPG531074 HAS BEEN TEMPORARILY LOST, TRACK 2
 ID=FROG1 FROG-7-SSM 1;
PRINTED BY: mds007
; VISUAL DETECT STATUS; FROG1; 32SPF522805; 060810ZJAN99; MANCON 2; DETECTION AT
32SPF862741 HAS BEEN TEMPORARILY LOST, TRACK 4
 ID=INF H/P TROOPS 182;
PRINTED BY: mds007
; VISUAL DETECT STATUS; INF_H/P; 32SPF843933; 060810ZJAN99; MANCON 4; DETECTION AT
32SPF503995 HAS BEEN TEMPORARILY LOST, TRACK 3
, ID=FROG1 FROG-7-SSM 1; TROOPS 4;
PRINTED BY: mds007
; VISUAL DETECT STATUS; FROG1; 32SPF522805; 060810ZJAN99; MANCON 2; DETECTION AT
32SPF850699 HAS BEEN TEMPORARILY LOST, TRACK 5
 ID=VMV PURPLE MV-22 24; TROOPS 209;
PRINTED BY: mds007
; VISUAL DETECT STATUS; FROG1; 32SPF522805; 060810ZJAN99; MANCON 2; DETECTION AT
32SPF237886 HAS BEEN TEMPORARILY LOST, TRACK 6
 ID=ENG 5.0-TRUCK 3; MCLIC 7; X-TANK 4; HMMWV 9; SEE 2;
PRINTED BY: mds007
; VISUAL DETECT STATUS; VMV PURPLE; 32SPF844928; 060810ZJAN99; MANCON 4; DETECTION
AT 32SPG516034 HAS BEEN TEMPORARILY LOST, TRACK 3
 ID=FROG1 FROG-7-SSM 1; TROOPS 4;
PRINTED BY: mds007
; VISUAL DETECT STATUS; ENG; 32SPF780947; 060810ZJAN99; MANCON 1; DETECTION AT
32SOF065868 HAS BEEN TEMPORARILY LOST, TRACK 4
 ID=FROG1 FROG-7-SSM 1;
PRINTED BY: mds007
;AIR RTE POINT;BCAS7;32SPG901122;060810ZJAN99;MANCON 3;AIR MISSION HAS REACHED
FINAL LAND POINT
PRINTED BY: mds007
;AIRCRAFT STAT;BCAS7;32SPG901122;060810ZJAN99;MANCON 3;AIR MISSION HAS FOL
AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0
PRINTED BY: mds007
;AIR MSN LAUNCH;BOGEY2;32SPF602645;060810ZJAN99;AGCON 1;AIR MISSION HAS
LAUNCHED
PRINTED BY: mds007
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;AIR RTE POINT;BCAS8;32SPG901122;060810ZJAN99;MANCON 3;AIR MISSION HAS REACHED

FINAL LAND POINT PRINTED BY: mds007

- ;AIRCRAFT STAT;BCAS8;32SPG901122;060810ZJAN99;MANCON_3;AIR MISSION HAS FOL AIRCRAFT STATUS UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007
- ;ENGAGEMENT STATUS CHANGE;TANK1;32SPF522895;060811ZJAN99;AGCON_1;IS ENGAGED BY INF_H/B

; ENGAGEMENT STATUS CHANGE; TANK1; 32SPF522895; 060811ZJAN99; AGCON_1; IS ENGAGED BY INF A/B

PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;FROG1;32SPF522805;060811ZJAN99;MANCON_2;HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_H/P PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF H/P;32SPF843933;060811ZJAN99;MANCON_4;HAS TERMINATED ENGAGEMENT, NO LOS WITH FROG1 PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; TANK1; 32SPF522895; 060811ZJAN99; AGCON_1; HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_H/B PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE; INF_H/B;32SPF755892;060811ZJAN99;MANCON_3;HAS TERMINATED ENGAGEMENT, NO LOS WITH TANK1
PRINTED BY: mds007

; REPORT; GROUND_ENGAGEMENT 4; 32SPF522895; 060811ZJAN99; AGCON 1, MANCON 3;

NO ASSESSMENT; PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; TANK1; 32SPF522895; 060811ZJAN99; AGCON_1; HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_A/B PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; INF_A/B; 32SPF746895; 060811ZJAN99; MANCON_3; HAS TERMINATED ENGAGEMENT, NO LOS WITH TANK1
PRINTED BY: mds007

;SHIP MOVE;SUB2;32SQF163977;060811ZJAN99;AGCON_1;HAVE COMMENCED MOVEMENT PRINTED BY: mds007

;VISUAL DETECT;AGSUP;32SPF728830;060811ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED ENGINEER UNIT AT 32SPF728864, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; X-TANK 4; HMMWV 9; SEE 2; PRINTED BY: mds007

;VISUAL DETECT;AGAIR;32SPF728830;060811ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED ENGINEER UNIT AT 32SPF728863, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; X-TANK 4; HMMWV 9; SEE 2; PRINTED BY: mds007

;OBJECT DETECT;ENG;32SPF728866;060811ZJAN99;MANCON_1;HAVE DETECTED STRUCTURE AT 32SPF729833;
PRINTED BY: mds007

;VISUAL DETECT;ENG;32SPF728866;060811ZJAN99;MANCON_1;HAVE DETECTED SQUADRON SIZED AVIATION UNIT AT 32SPF728833, TRACK 5

, ID=AGAIR

PRINTED BY: mds007

;VISUAL DETECT;ENG;32SPF728866;060811ZJAN99;MANCON_1;HAVE DETECTED COMPANY SIZED SUPPLY UNIT AT 32SPF728832, TRACK 6

, ID=AGSUP

PRINTED BY: mds007

;VISUAL DETECT STATUS;SOF;32SPF724997;060811ZJAN99;MANCON_1;DETECTION AT 32SPF742853 HAS BEEN TEMPORARILY LOST, TRACK 3

, ID=LDVEH2 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63;

PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060811ZJAN99;MANCON_4;SURFACE TRACK AW (SUB2)
DETECTED AT 32SQF163977; TRACK IS HOSTILE
PRINTED BY: mds007

;VISUAL DETECT;SILK1;32SPF828968;060812ZJAN99;AGCON_1;HAVE DETECTED SQUADRON SIZED AVIATION UNIT AT 32SPF844932, TRACK 4

, ID=VMV_PURPLE PRINTED BY: mds007

;VISUAL DETECT STATUS;FROG2;32SPF522782;060812ZJAN99;AGCON_1;DETECTION AT 32SPG577117 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=INF_A/P TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT STATUS;FROG2;32SPF522782;060812ZJAN99;AGCON_1;DETECTION AT 32SPF820991 HAS BEEN TEMPORARILY LOST, TRACK 4

, ID=AAAV/P AAAV 1; PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_A/P;32SPF828929;060812ZJAN99;MANCON_4;DETECTION AT 32SPF775596 HAS BEEN TEMPORARILY LOST, TRACK 4

, ID=FROG2 FROG-7-SSM 1; TROOPS 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;FROG2;32SPF522782;060812ZJAN99;AGCON_1;DETECTION AT 32SPG723074 HAS BEEN TEMPORARILY LOST, TRACK 7

, ID=INF_H/P PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_H/P;32SPF843933;060812ZJAN99;MANCON_4;DETECTION AT 32SPF645640 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=FROG2 FROG-7-SSM 1; PRINTED BY: mds007

; VISUAL DETECT STATUS; FROG2; 32SPF522782; 060812ZJAN99; AGCON_1; DETECTION AT 32SPG745057 HAS BEEN TEMPORARILY LOST, TRACK 8

, ID=VMV_PURPLE MV-22 24; TROOPS 208; PRINTED BY: mds007

;VISUAL DETECT STATUS;VMV_PURPLE;32SPF844929;060812ZJAN99;MANCON_4;DETECTION AT 32SPF623654 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=FROG2 FROG-7-SSM 1; TROOPS 2; PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;FROG2;32SPF522782;060813ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_A/P PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_A/P;32SPF828929;060813ZJAN99;MANCON_4;HAS TERMINATED ENGAGEMENT, NO LOS WITH FROG2 PRINTED BY: mds007

; VISUAL DETECT; AGSUP; 32SPF728830; 060813ZJAN99; AGCON_1; HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF727865, TRACK 3

, ID=INF_H/B PRINTED BY: mds007

;VISUAL DETECT;AGSUP;32SPF728830;060813ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF726860, TRACK 4

, ID=INF_A/B PRINTED BY: mds007

; VISUAL DETECT; AGAIR; 32SPF728830; 060813ZJAN99; AGCON_1; HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF727864, TRACK 3

, ID=INF_H/B PRINTED BY: mds007

;VISUAL DETECT;AGAIR;32SPF728830;060813ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF726859, TRACK 4

, ID=INF_A/B TROOPS 168; PRINTED BY: mds007

;VISUAL DETECT;SILK5;32SPF750831;060813ZJAN99;AGCON_1;HAVE DETECTED PLATOON SIZED INFANTRY UNIT AT 32SPF727861, TRACK 2

, ID=INF_A/B PRINTED BY: mds007

; VISUAL DETECT; ENG; 32SPF728866; 060813ZJAN99; MANCON_1; HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPF750832, TRACK 7

, ID=SILK5 D-20 2; PRINTED BY: mds007

;OBJECT DETECT;INF_H/B;32SPF726868;060813ZJAN99;MANCON_3;HAVE DETECTED STRUCTURE AT 32SPF728833; PRINTED BY: mds007

;VISUAL DETECT;INF_H/B;32SPF726868;060813ZJAN99;MANCON_3;HAVE DETECTED SOUADRON SIZED AVIATION UNIT AT 32SPF728833, TRACK 5

, ID=AGAIR

PRINTED BY: mds007

;VISUAL DETECT;INF_H/B;32SPF726868;060813ZJAN99;MANCON_3;HAVE DETECTED COMPANY SIZED SUPPLY UNIT AT 32SPF728832, TRACK 6

, ID=AGSUP

PRINTED BY: mds007

;VISUAL DETECT;INF_A/B;32SPF725863;060813ZJAN99;MANCON_3;HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPF749832, TRACK 5

, ID=SILK5 D-20 2; PRINTED BY: mds007

;VISUAL DETECT;INF_A/B;32SPF725863;060813ZJAN99;MANCON_3;HAVE DETECTED SQUADRON SIZED AVIATION UNIT AT 32SPF728833, TRACK 6

, ID=AGAIR TROOPS 262; PRINTED BY: mds007

;VISUAL DETECT;INF_A/B;32SPF725863;060813ZJAN99;MANCON_3;HAVE DETECTED COMPANY SIZED SUPPLY UNIT AT 32SPF728833, TRACK 7

, ID=AGSUP

PRINTED BY: mds007

;AIR MSN LAUNCH;ASW3;32SQF137980;060813ZJAN99;MANCON_2;CRUISE MISSILE HAS LAUNCHED

PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060814ZJAN99;MANCON_4;AIR TRACK AX (ASW3)-DETECTED AT 32SQG064023; TRACK IS FRIENDLY PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; INF_A/B; 32SPF725863; 060814ZJAN99; MANCON_3; HAS INITIATED ENGAGEMENT WITH AGAIR PRINTED BY: mds007

;UNIT CASUALTY LIMIT ;HILLIFY;32SPF841931;060814ZJAN99;AGCON_1;HAS REACHED EFFECTIVE CASUALTY LIMIT PRINTED BY: mds007

;UNIT DESTRUCTION; HILLIFY; 32SPF841931; 060814ZJAN99; AGCON_1; UNIT IS NO LONGER COMBAT EFFECTIVE PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; HILLIFY; 32SPF841931; 060814ZJAN99; AGCON_1; IS DESTROYED, TERMINATING ENGAGEMENT WITH INF_A/P PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE;INF_A/P;32SPF828929;060814ZJAN99;MANCON_4;HAS TERMINATED ENGAGEMENT WITH HILLIFY, UNIT DESTROYED. PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;HILLIFY;32SPF841931;060814ZJAN99;AGCON_1;IS DESTROYED, TERMINATING ENGAGEMENT WITH INF_H/P PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; INF_H/P; 32SPF843933; 060814ZJAN99; MANCON_4; HAS TERMINATED ENGAGEMENT WITH HILLIFY, UNIT DESTROYED. PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; HILLIFY; 32SPF841931; 060814ZJAN99; AGCON_1; IS DESTROYED, TERMINATING ENGAGEMENT WITH VMV_PURPLE PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE;VMV_PURPLE;32SPF844929;060814ZJAN99;MANCON_4;HAS TERMINATED ENGAGEMENT WITH HILLIFY, UNIT DESTROYED. PRINTED BY: mds007

;REPORT; GROUND_ENGAGEMENT 2;32SPF844929;060814ZJAN99;MANCON_4,AGCON_1;

Initial engagement times:

INF A/P; 060806ZJAN99

HILLIFY; 060806ZJAN99

INF_H/P; 060809ZJAN99

VMV_PURPLE; 060810ZJAN99

Cumulative losses:

UNIT HILLIFY; TROOPS 5 WIA, 1 KIA UNIT AGSUP; No damage assessed. UNIT AGSUP; No damage assessed.

UNIT HILLIFY; HMMWV-40MM-MG 1 K_KILLED,

UNIT INF_H/P; TROOPS 2 WIA,

UNIT VMV_PURPLE; TROOPS 4 WIA, UNIT AGSUP; No damage assessed.

UNIT FROG2; TROOPS 3 WIA,

Incremental losses (increases since the last report)

UNIT HILLIFY; TROOPS 3 WIA, 1 KIA

UNIT VMV_PURPLE; TROOPS 4 WIA,

UNIT INF H/P; TROOPS 2 WIA,

UNIT HILLIFY; HMMWV-40MM-MG 1 K KILLED,

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; REPORT; GROUND_ENGAGEMENT 2; 32SPF844929; 060814ZJAN99; AGCON_1, MANCON_4;

Initial engagement times:

HILLIFY; 060806ZJAN99

VMV_PURPLE; 060810ZJAN99

Cumulative losses:

CE PRODUCT SOUTH RD; No damage assessed.

CE PRODUCT NORTH RD; No damage assessed.

CE_PRODUCT NOR BCH; No damage assessed.

TROOPS 5 WIA, 1 KIA

HMMWV-40MM-MG 1 K KILLED,

TROOPS 2 WIA,

TROOPS 4 WIA,

TROOPS 3 WIA,

No changes in CDA since last report.

PRINTED BY: mds007

;AIR RTE POINT;ASW3;32SQF124981;060814ZJAN99;MANCON_2;CRUISE MISSILE HAS REACHED ATTACK POINT PRINTED BY: mds007

;STATUS CHANGE;SUB2;32SQF124981;060814ZJAN99;AGCON_1; UNDER AIR ATTACK PRINTED BY: mds007

; ASSESSMENT REPORT; FFG; AIR TO SURFACE; 32SQF124981; 060814ZJAN99; MANCON 2;

NO ASSESSMENT; Msn# ASW3

PRINTED BY: mds007

;OBJECT DETECT;SILK2;32SPF866877;060814ZJAN99;AGCON_1;HAVE DETECTED STRUCTURE AT 32SPF879851;
PRINTED BY: mds007

;VISUAL DETECT;SILK2;32SPF866877;060814ZJAN99;AGCON_1;HAVE DETECTED A SHIP AT 32SPF877894, TRACK 2

, ID=SMC TROOPS 257; PRINTED BY: mds007

;AIR MSN LAUNCH;BOGEY3;32SPF602645;060814ZJAN99;AGCON_1;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH;DL403;32SPF625617;060814ZJAN99;AGCON_1;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH;ASW4;32SQF124981;060815ZJAN99;MANCON_2;CRUISE MISSILE HAS LAUNCHED

PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060815ZJAN99;MANCON_4;AIR TRACK AY (ASW4) DETECTED AT 32SQG063022; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060815ZJAN99;MANCON_4;AIR TRACK AZ (DL403) DETECTED AT 32SPF607678; TRACK IS SUSPECT PRINTED BY: mds007

;AIR MSN ILLUMINATED;DL403;32SPF607678;060815ZJAN99;AGCON_1;AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR PRINTED BY: mds007

;VISUAL DETECT STATUS;SOF;32SPF723995;060815ZJAN99;MANCON_1;DETECTION AT 32SPG921098 HAS BEEN LOST, TRACK 2

, ID=LDVEH1 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63; PRINTED BY: mds007

;AIR RTE POINT;ASW4;32SQF111983;060815ZJAN99;MANCON_2;CRUISE MISSILE HAS REACHED ATTACK POINT PRINTED BY: mds007

;ASSESSMENT REPORT;FFG;AIR_TO_SURFACE;32SQF111983;060815ZJAN99;MANCON_2;
NO ASSESSMENT; Msn# ASW4

PRINTED BY: mds007

;UNIT MOVE ;INF_A/B;32SPF725863;060815ZJAN99;MANCON_3;COMMENCING MOVEMENT at 060815ZJAN99
PRINTED BY: mds007

;VISUAL DETECT CHANGE;AGSUP;32SPF728830;060815ZJAN99;AGCON_1;DETECTION AT 32SPF726858 IS A COMPANY SIZED INFANTRY UNIT, TRACK 4

, ID=INF_A/B TROOPS 168; PRINTED BY: mds007

; VISUAL DETECT CHANGE; INF_A/B; 32SPF726862; 060815ZJAN99; MANCON_3; DETECTION AT 32SPF728833 IS A COMPANY SIZED SUPPLY UNIT, TRACK 7

, ID=AGSUP TROOPS 175; PRINTED BY: mds007

;UNIT MOVE ;INF_H/B;32SPF726868;060815ZJAN99;MANCON_3;COMMENCING MOVEMENT at 060815ZJAN99
PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060816ZJAN99;MANCON_4;AIR TRACK BA (BOGEY3) DETECTED AT 32SPF726827; TRACK IS HOSTILE PRINTED BY: mds007

;AIR MSN ILLUMINATED;BOGEY3;32SPF726827;060816ZJAN99;AGCON_1;AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR PRINTED BY: mds007

;UNIT DEFENSIVE MISSION ;INF_H/B;32SPF726867;060816ZJAN99;MANCON_3;HAS ASSUMED DEFENSIVE MISSION DUE TO CPR (0.39252<=2.00000)
PRINTED BY: mds007

;UNIT DEFENSIVE MISSION ;INF_A/B;32SPF726862;060816ZJAN99;MANCON_3;HAS ASSUMED DEFENSIVE MISSION DUE TO CPR (0.29759<=2.00000)
PRINTED BY: mds007

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; ENGAGEMENT STATUS CHANGE ; INF A/B; 32SPF726862; 060816ZJAN99; MANCON 3; HAS
INITIATED ENGAGEMENT WITH AGSUP
PRINTED BY: mds007
; ENGAGEMENT STATUS CHANGE; AGAIR; 32SPF728830; 060816ZJAN99; AGCON 1; IS ENGAGED BY
PRINTED BY: mds007
; ENGAGEMENT STATUS CHANGE; AGSUP; 32SPF728830; 060816ZJAN99; AGCON 1; IS ENGAGED BY
INF A/B
PRINTED BY: mds007
;AIR RTE POINT;BCAS9;32SPF750829;060816ZJAN99;MANCON 3;AIR MISSION HAS REACHED
ATTACK POINT
PRINTED BY: mds007
;STATUS CHANGE;SILK5;32SPF750831;060816ZJAN99;AGCON 1; RECEIVING AIR-TO-
SURFACE FIRE
PRINTED BY: mds007
; ASSESSMENT
REPORT; VF BLUE; AIR TO SURFACE; 32SPF750831; 060816ZJAN99; MANCON 3; BCAS9;
UNIT SILK5; D-20 1 M KILLED,
PRINTED BY: mds007
; ASSESSMENT
REPORT; INF A/B; AIR TO SURFACE; 32SPF750831; 060816ZJAN99; MANCON 3; BCAS9;
UNIT SILK5; D-20 1 M KILLED,
PRINTED BY: mds007
; ASSESSMENT
REPORT; SILK5; AIR TO SURFACE; 32SPF750831; 060816ZJAN99; AGCON 1; BCAS9;
UNIT SILK5; D-20 1 M KILLED,
PRINTED BY: mds007
;AIR MSN LAUNCH;ASW5;32SQF098985;060816ZJAN99;MANCON 2;CRUISE MISSILE HAS
LAUNCHED
PRINTED BY: mds007
;AIR RTE POINT;GCAP1;32SPG663123;060816ZJAN99;MANCON 2;AIR MISSION HAS REACHED
AIR TO AIR LAUNCH POINT
PRINTED BY: mds007
; ASSESSMENT
REPORT; VF GREEN; AIR TO AIR; 32SPF753896; 060816ZJAN99; MANCON 2; GCAP1;
AIR MSN BOGEY3; SU-24-FENCER 1 K KILLED,
PRINTED BY: mds007
;ASSESSMENT REPORT;BOGEY3;AIR TO AIR;32SPF753896;060816ZJAN99;AGCON 1;GCAP1;
UNIT AGAIR1; SU-24-FENCER 1 K KILLED,
PRINTED BY: mds007
;AIR TRK DATA; LHA; 32SPF962990; 060816ZJAN99; MANCON 4; AIR TRACK BB (ASW5)
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DETECTED AT 32SQF088993; TRACK IS FRIENDLY

PRINTED BY: mds007

;VISUAL DETECT STATUS;SILK5;32SPF610875;060816ZJAN99;AGCON_1;DETECTION AT 32SPF538966 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=INF_A/B

PRINTED BY: mds007

;VISUAL DETECT STATUS;ENG;32SPF728866;060816ZJAN99;MANCON_1;DETECTION AT 32SPF790765 HAS BEEN TEMPORARILY LOST, TRACK 7

, ID=SILK5 D-20 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_A/B;32SPF726862;060816ZJAN99;MANCON_3;DETECTION AT 32SPF797771 HAS BEEN TEMPORARILY LOST, TRACK 5

, ID=SILK5 D-20 2; PRINTED BY: mds007

;AIR MSN LAUNCH;QA142;32SPF625617;060816ZJAN99;AGCON_1;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH;BOGEY4;32SPF602645;060816ZJAN99;AGCON_1;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR RTE POINT;ASW5;32SQF098985;060816ZJAN99;MANCON_2;CRUISE MISSILE HAS REACHED ATTACK POINT PRINTED BY: mds007

; ASSESSMENT REPORT; FFG; AIR_TO_SURFACE; 32SQF098985; 060816ZJAN99; MANCON 2; ASW5;

UNIT SUB2; SUBMARINE 1 M_KILLED, PRINTED BY: mds007

; ASSESSMENT REPORT; SUB2; AIR_TO_SURFACE; 32SQF098985; 060816ZJAN99; AGCON 1; ASW5;

UNIT SUB2; SUBMARINE 1 M_KILLED, PRINTED BY: mds007.

;AIR RTE POINT;GCAP1;32SPG663123;060817ZJAN99;MANCON_2;AIR MISSION HAS REACHED AIR TO AIR LAUNCH POINT PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_GREEN; AIR_TO_AIR; 32SPF795913; 060817ZJAN99; MANCON_2; GCAP1;

AIR MSN BOGEY3; SU-24-FENCER 1 K_KILLED, PRINTED BY: mds007

; ASSESSMENT REPORT; BOGEY3; AIR_TO_AIR; 32SPF795913; 060817ZJAN99; AGCON 1; GCAP1;

UNIT AGAIR1; SU-24-FENCER 1 K_KILLED, PRINTED BY: mds007

;AD ENGAGE END;GCAP1;32SPF810958;060817ZJAN99;MANCON_2;TERMINATING ENGAGEMENT WITH TRACK BA; ENEMY DESTROYED PRINTED BY: mds007

;AIR MSN CANX;BOGEY3;32SPF795913;060817ZJAN99;AGCON_1;AIR MISSION CANCELED DUE TO LOSS OF AIRCRAFT PRINTED BY: mds007

;AIRCRAFT STAT;BOGEY3;32SPF795913;060817ZJAN99;AGCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 0; NON MISSION CAPABLE: 0; DESTROYED: 2 PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060817ZJAN99;MANCON_4;AIR TRACK BC (QA142) DETECTED AT 32SPF656674; TRACK IS SUSPECT PRINTED BY: mds007

;AIR MSN ILLUMINATED;QA142;32SPF656674;060817ZJAN99;AGCON_1;AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR PRINTED BY: mds007

;SHIP MOVE;PB2;32SQG052159;060817ZJAN99;AGCON_1;HAVE COMMENCED MOVEMENT PRINTED BY: mds007

;SHIP MOVE;SUB2;32SQF098985;060817ZJAN99;AGCON_1;UNABLE TO MOVE - SHIP DAMAGED PRINTED BY: mds007

;AIR MSN LAUNCH;BCAS11;32SPG901122;060817ZJAN99;MANCON_3;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH;BCAS12;32SPG901122;060817ZJAN99;MANCON_3;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR RTE POINT;BCAS10;32SPF867877;060817ZJAN99;MANCON_3;AIR MISSION HAS REACHED ATTACK POINT PRINTED BY: mds007

;STATUS CHANGE;SILK2;32SPF866877;060817ZJAN99;AGCON_1; RECEIVING AIR-TO-SURFACE FIRE

PRINTED BY: mds007

;ASSESSMENT REPORT;VF_BLUE;AIR_TO_SURFACE;32SPF867877;060817ZJAN99;MANCON_3;

NO ASSESSMENT; Msn# BCAS10

PRINTED BY: mds007

;ASSESSMENT REPORT;INF A/B;AIR TO SURFACE;32SPF867877;060817ZJAN99;MANCON 3;

NO ASSESSMENT; Msn# BCAS10

PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060817ZJAN99;MANCON_4;AIR TRACK BD (BCAS12)
DETECTED AT 32SPG926052; TRACK IS FRIENDLY
PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060817ZJAN99;MANCON_4;AIR TRACK BE (BCAS11) DETECTED AT 32SPG926052; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060817ZJAN99;MANCON 4;SURFACE TRACK BF (PB2) DETECTED AT 32SQG052159; TRACK IS HOSTILE PRINTED BY: mds007 ; AIR TRK DATA; LHA; 32SPF962990; 060818ZJAN99; MANCON 4; AIR TRACK BG (BOGEY4) DETECTED AT 32SPF771801; TRACK IS HOSTILE PRINTED BY: mds007 ;AIR MSN ILLUMINATED;BOGEY4;32SPF771801;060818ZJAN99;AGCON 1;AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR PRINTED BY: mds007 ; VISUAL DETECT; FROG4; 32SPF805917; 060818ZJAN99; AGCON 1; HAVE DETECTED SQUADRON SIZED AVIATION UNIT AT 32SPF842929, TRACK 2 ID=VMV PURPLE PRINTED BY: mds007 ; VISUAL DETECT; FROG4; 32SPF805917; 060818ZJAN99; AGCON 1; HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF807934, TRACK 3 , ID=INF A/P TROOPS 182; PRINTED BY: mds007 ; VISUAL DETECT; VMV PURPLE; 32SPF844929; 060818ZJAN99; MANCON 4; HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPF808917, TRACK 6 ID=FROG4 FROG-7-SSM 1; PRINTED BY: mds007 ; VISUAL DETECT; SOF; 32SPF722994; 060818ZJAN99; MANCON 1; HAVE DETECTED COMPANY SIZED LIGHT ARMOR UNIT AT 32SPG729013, TRACK 4 , ID=LDVEH1 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63; PRINTED BY: mds007 ; VISUAL DETECT; INF H/P; 32SPF843933; 060818ZJAN99; MANCON 4; HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPF807917, TRACK 6 ID=FROG4 FROG-7-SSM 1; PRINTED BY: mds007 ; VISUAL DETECT; INF A/P; 32SPF807935; 060818ZJAN99; MANCON 4; HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPF806918, TRACK 6 ID=FROG4 FROG-7-SSM 1; TROOPS 4; PRINTED BY: mds007 ; VISUAL DETECT STATUS; FROG2; 32SPF522782; 060818ZJAN99; AGCON_1; DETECTION AT 32SPF515732 HAS BEEN LOST, TRACK 5 ID=INF H/B TROOPS 182;

;VISUAL DETECT STATUS;FROG2;32SPF522782;060818ZJAN99;AGCON_1;DETECTION AT 32SPF490748 HAS BEEN LOST, TRACK 6

, ID=INF A/B TROOPS 168; PRINTED BY: mds007

PRINTED BY: mds007

; VISUAL DETECT STATUS; INF_H/B; 32SPF726867; 060818ZJAN99; MANCON_3; DETECTION AT 32SPF734917 HAS BEEN LOST, TRACK 3

, ID=FROG2 FROG-7-SSM 1; TROOPS 4; PRINTED BY: mds007

; VISUAL DETECT STATUS; INF_A/B; 32SPF726862; 060818ZJAN99; MANCON_3; DETECTION AT 32SPF758897 HAS BEEN LOST, TRACK 3

, ID=FROG2 FROG-7-SSM 1; TROOPS 4; PRINTED BY: mds007

;AIR RTE POINT;BCAS11;32SPF959958;060818ZJAN99;MANCON_3;AIR MISSION HAS REACHED ORBIT POINT PRINTED BY: mds007

;AIR RTE POINT;BCAS12;32SPF959958;060818ZJAN99;MANCON_3;AIR MISSION HAS REACHED ORBIT POINT
PRINTED BY: mds007

;AIR RTE POINT;BCAS9;32SPG901122;060818ZJAN99;MANCON_3;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;BCAS9;32SPG901122;060818ZJAN99;MANCON_3;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;AIR RTE POINT;GCAP1;32SPG663123;060818ZJAN99;MANCON_2;AIR MISSION HAS REACHED ORBIT POINT .
PRINTED BY: mds007

;AIR RTE POINT;FCAS7;32SPF828878;060818ZJAN99;MANCON_1;AIR MISSION HAS REACHED ATTACK POINT PRINTED BY: mds007

;STATUS CHANGE;FROG3;32SPF829878;060818ZJAN99;AGCON_1; RECEIVING AIR-TO-SURFACE FIRE PRINTED BY: mds007

;ASSESSMENT REPORT; VF FLAG; AIR_TO_SURFACE; 32SPF829878; 060818ZJAN99; MANCON_1;

NO ASSESSMENT; Msn# FCAS7

PRINTED BY: mds007

;ASSESSMENT REPORT;SOF;AIR TO SURFACE;32SPF829878;060818ZJAN99;MANCON 1;

NO ASSESSMENT; Msn# FCAS7

PRINTED BY: mds007

;VISUAL DETECT STATUS;TANK1;32SPF522895;060818ZJAN99;AGCON_1;DETECTION AT 32SPF784868 HAS BEEN LOST, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; X-TANK 4; HMMWV 9; SEE 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;ENG;32SPF728866;060818ZJAN99;MANCON_1;DETECTION AT 32SPF466893 HAS BEEN LOST, TRACK 2

, ID=TANK1 HMMWV-TOW 8; M1A1 13; PRINTED BY: mds007

;VISUAL DETECT STATUS;FROG2;32SPF522782;060818ZJAN99;AGCON_1;DETECTION AT 32SPF474745 HAS BEEN LOST, TRACK 3

, ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82; PRINTED BY: mds007

;VISUAL DETECT STATUS;ENG;32SPF728866;060818ZJAN99;MANCON_1;DETECTION AT 32SPF777904 HAS BEEN LOST, TRACK 3

, ID=FROG2 FROG-7-SSM 1; TROOPS 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;TANK1;32SPF522895;060818ZJAN99;AGCON_1;DETECTION AT 32SPF754785 HAS BEEN LOST, TRACK 3

, ID=INF_H/B TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT STATUS;TANK1;32SPF522895;060818ZJAN99;AGCON_1;DETECTION AT 32SPF760786 HAS BEEN LOST, TRACK 4

, ID=INF_A/B TROOPS 168; PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_H/B;32SPF726867;060818ZJAN99;MANCON_3;DETECTION AT 32SPF494977 HAS BEEN LOST, TRACK 4

, ID=TANK1 HMMWV-TOW 8; M1A1 13; TROOPS 7; PRINTED BY: mds007

; VISUAL DETECT STATUS; INF_A/B; 32SPF726862; 060818ZJAN99; MANCON_3; DETECTION AT 32SPF487971 HAS BEEN LOST, TRACK 4

, ID=TANK1 HMMWV-TOW 8; M1A1 13; TROOPS 7; PRINTED BY: mds007

;UNIT MOVE ;LDVEH1;32SPG729015;060819ZJAN99;AGCON_1;COMMENCING MOVEMENT at 060819ZJAN99
PRINTED BY: mds007

; ASSESSMENT REPORT; CG; SURFACE_TO_AIR; 32SPF912858; 060819ZJAN99; MANCON 2; CG;

AIR MSN BOGEY4; SU-24-FENCER 2 K_KILLED, PRINTED BY: mds007

; ASSESSMENT REPORT; BOGEY4; SURFACE_TO_AIR; 32SPF912858; 060819ZJAN99; AGCON_1; CG;

UNIT AGAIR1; SU-24-FENCER 2 K_KILLED, PRINTED BY: mds007

;AD ENGAGE END;CG;32SQF128935;060819ZJAN99;MANCON_2;TERMINATING ENGAGEMENT WITH TARGET (BOGEY4); ENEMY DESTROYED PRINTED BY: mds007

;UNIT DEFENSIVE MISSION ;FROG4;32SPF805917;060819ZJAN99;AGCON_1;HAS ASSUMED WITHDRAW MISSION DUE TO CPR (0.00000<=0.17000)
PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_A/P;32SPF807935;060819ZJAN99;MANCON_4;HAS INITIATED ENGAGEMENT WITH FROG4
PRINTED BY: mds007

;UNIT MOVE ;FROG4;32SPF805917;060819ZJAN99;AGCON_1;COMMENCING MOVEMENT at 060819ZJAN99
PRINTED BY: mds007

;AIR RTE POINT;BCAS10;32SPG901122;060819ZJAN99;MANCON_3;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;BCAS10;32SPG901122;060819ZJAN99;MANCON_3;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;AIR MSN CANX;BOGEY4;32SPF912858;060819ZJAN99;AGCON_1;AIR MISSION CANCELED DUE TO LOSS OF AIRCRAFT PRINTED BY: mds007

;AIRCRAFT STAT;BOGEY4;32SPF912858;060819ZJAN99;AGCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 0; NON MISSION CAPABLE: 0; DESTROYED: 2 PRINTED BY: mds007

;UNIT DESTINATION;LDVEH1;32SPG736006;060819ZJAN99;AGCON_1;HAVE REACHED ASSIGNED DESTINATION PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060819ZJAN99;MANCON_4;AIR TRACK BH (BOGEY2)
DETECTED AT 32SPG855224; TRACK IS HOSTILE
PRINTED BY: mds007

;AIR MSN ILLUMINATED;BOGEY2;32SPG855224;060819ZJAN99;AGCON_1;AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR PRINTED BY: mds007

;VISUAL DETECT STATUS;SILK1;32SPF828968;060819ZJAN99;AGCON_1;DETECTION AT 32SPF801925 HAS BEEN TEMPORARILY LOST, TRACK 3

, ID=INF_A/P PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_A/P;32SPF784943;060819ZJAN99;MANCON_4;DETECTION AT 32SPF812985 HAS BEEN TEMPORARILY LOST, TRACK 5

, ID=SILK1 D-20 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;FROG4;32SPF805916;060819ZJAN99;AGCON_1;DETECTION AT 32SPF845929 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=VMV_PURPLE PRINTED BY: mds007

;AIR MSN LAUNCH;HELO1;32SPF602645;060819ZJAN99;AGCON_1;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;UNIT DEFENSIVE MISSION ;FROG4;32SPF805916;060820ZJAN99;AGCON_1;HAS ASSUMED DEFENSIVE MISSION PRINTED BY: mds007

;AIR RTE POINT;GCAP2;32SPG680125;060820ZJAN99;MANCON_2;AIR MISSION HAS REACHED AIR TO AIR LAUNCH POINT PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_GREEN; AIR_TO_AIR; 32SPG901123; 060820ZJAN99; MANCON 2; GCAP2;

AIR MSN BOGEY2; SU-24-FENCER 1 K_KILLED, PRINTED BY: mds007

;ASSESSMENT REPORT;BOGEY2;AIR_TO_AIR;32SPG901123;060820ZJAN99;AGCON 1;GCAP2;

UNIT AGAIR1; SU-24-FENCER 1 K_KILLED, PRINTED BY: mds007

;AIR RTE POINT;FCAS7;32SPG901122;060820ZJAN99;MANCON_1;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;FCAS7;32SPG901122;060820ZJAN99;MANCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;VISUAL DETECT CHANGE;AGSUP;32SPF728830;060820ZJAN99;AGCON_1;DETECTION AT 32SPF729830 IS A COMPANY SIZED INFANTRY UNIT, TRACK 3

, ID=INF_H/B TROOPS 182; SMAW 6; PRINTED BY: mds007

;VISUAL DETECT CHANGE;AGSUP;32SPF728830;060820ZJAN99;AGCON_1;DETECTION AT 32SPF728830 IS A COMPANY SIZED INFANTRY UNIT, TRACK 4

, ID=INF_A/B TROOPS 168; AT4-US 9; 60MM-MTR 3; M-16 130; SAW 27; M-203 27; M240-MG 6; SMAW 6; PRINTED BY: mds007

;VISUAL DETECT CHANGE;AGAIR;32SPF728830;060820ZJAN99;AGCON_1;DETECTION AT 32SPF728830 IS A COMPANY SIZED INFANTRY UNIT, TRACK 3

, ID=INF_H/B TROOPS 182; AT4-US 9; 60MM-MTR 3; M-16 132; SAW 27; M-203 27; M240-MG 6; SMAW 6; PRINTED BY: mds007

;VISUAL DETECT CHANGE;AGAIR;32SPF728830;060820ZJAN99;AGCON_1;DETECTION AT 32SPF728830 IS A COMPANY SIZED INFANTRY UNIT, TRACK 4

, ID=INF_A/B TROOPS 168; AT4-US 9; 60MM-MTR 3; M-16 130; SAW 27; M-203 27; M240-MG 6; SMAW 6; PRINTED BY: mds007

;VISUAL DETECT;ARTY1;32SPF784918;060820ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF784941, TRACK 2

, ID=INF_A/P TROOPS 182; PRINTED BY: mds007

; VISUAL DETECT CHANGE; INF H/B; 32SPF729830; 060820ZJAN99; MANCON 3; DETECTION AT 32SPF729830 IS A SQUADRON SIZED AIR SQUADRON UNIT, TRACK 5 ID=AGAIR TROOPS 262; M-16 216; PRINTED BY: mds007 :VISUAL DETECT CHANGE; INF H/B; 32SPF729830; 060820ZJAN99; MANCON 3; DETECTION AT 32SPF729829 IS A COMPANY SIZED SUPPLY UNIT, TRACK 6 ID=AGSUP TROOPS 175; PRINTED BY: mds007 ; VISUAL DETECT CHANGE; INF A/B; 32SPF729830; 060820ZJAN99; MANCON 3; DETECTION AT 32SPF729830 IS A SQUADRON SIZED AIR SQUADRON UNIT, TRACK 6 ID=AGAIR TROOPS 262; M-16 216; PRINTED BY: mds007 ; VISUAL DETECT; INF A/P; 32SPF784943; 060820ZJAN99; MANCON 4; HAVE DETECTED SECTION · SIZED ARTILLERY UNIT AT 32SPF785919, TRACK 7 ID=ARTY1 D-20 2; TROOPS 8; PRINTED BY: mds007 ; VISUAL DETECT STATUS; FROG1; 32SPF522805; 060820ZJAN99; MANCON 2; DETECTION AT 32SPF819660 HAS BEEN LOST, TRACK 2 ID=INF A/P PRINTED BY: mds007 ; VISUAL DETECT STATUS; FROG1; 32SPF522805; 060820ZJAN99; MANCON 2; DETECTION AT 32SPF863708 HAS BEEN LOST, TRACK 3 ID=AAAV/P PRINTED BY: mds007 ; VISUAL DETECT STATUS; INF_A/P; 32SPF784943; 060820ZJAN99; MANCON 4; DETECTION AT 32SPG487087 HAS BEEN LOST, TRACK 2 ID=FROG1 FROG-7-SSM 1; PRINTED BY: mds007 ; VISUAL DETECT STATUS; FROG1; 32SPF522805; 060820ZJAN99; MANCON 2; DETECTION AT 32SPF862741 HAS BEEN LOST, TRACK 4 ID=INF H/P TROOPS 182; PRINTED BY: mds007 ;VISUAL DETECT STATUS;INF_H/P;32SPF843933;060820ZJAN99;MANCON_4;DETECTION AT 32SPF503995 HAS BEEN LOST, TRACK 3 ID=FROG1 FROG-7-SSM 1; TROOPS 4; PRINTED BY: mds007

, ID=VMV_PURPLE MV-22 24; TROOPS 209; PRINTED BY: mds007

32SPF850699 HAS BEEN LOST, TRACK 5

; VISUAL DETECT STATUS; FROG1; 32SPF522805; 060820ZJAN99; MANCON 2; DETECTION AT

;VISUAL DETECT STATUS;FROG1;32SPF522805;060820ZJAN99;MANCON_2;DETECTION AT 32SPF237886 HAS BEEN LOST, TRACK 6

, ID=ENG 5.0-TRUCK 3; MCLIC 7; X-TANK 4; HMMWV 9; SEE 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;VMV_PURPLE;32SPF844929;060820ZJAN99;MANCON_4;DETECTION AT 32SPG516035 HAS BEEN LOST, TRACK 3

, ID=FROG1 FROG-7-SSM 1; TROOPS 4; PRINTED BY: mds007

; VISUAL DETECT STATUS; ENG; 32SPF728866; 060820ZJAN99; MANCON_1; DETECTION AT 32SQF013787 HAS BEEN LOST, TRACK 4

, ID=FROG1 FROG-7-SSM 1; PRINTED BY: mds007

;AIR RTE POINT;BOGEY2;32SPG901122;060820ZJAN99;AGCON_1;AIR MISSION HAS REACHED ATTACK POINT PRINTED BY: mds007

;STATUS CHANGE;CV;32SPG901122;060820ZJAN99;MANCON_2; RECEIVING AIR-TO-SURFACE FIRE

PRINTED BY: mds007

;UNIT CASUALTY LIMIT; VF_GREEN; 32SPG901122; 060820ZJAN99; MANCON_2; HAS REACHED EFFECTIVE CASUALTY LIMIT PRINTED BY: mds007

;UNIT CASUALTY LIMIT ;VF_FLAG;32SPG901122;060820ZJAN99;MANCON_1;HAS REACHED EFFECTIVE CASUALTY LIMIT PRINTED BY: mds007

;UNIT CASUALTY LIMIT ;VF_BLUE;32SPG901122;060820ZJAN99;MANCON_3;HAS REACHED EFFECTIVE CASUALTY LIMIT PRINTED BY: mds007

;UNIT CASUALTY LIMIT ;VF_PURPLE;32SPG901122;060820ZJAN99;MANCON_4;HAS REACHED EFFECTIVE CASUALTY LIMIT PRINTED BY: mds007

; ASSESSMENT

REPORT; AGAIR1; AIR_TO_SURFACE; 32SPG901122; 060820ZJAN99; AGCON_1; BOGEY2;

UNIT CV; TROOPS 1410 WIA, 473 KIA

UNIT VF_PURPLE; TROOPS 135 WIA, 132 KIA

UNIT VF_BLUE; TROOPS 135 WIA, 132 KIA

UNIT VF_FLAG; TROOPS 135 WIA, 132 KIA

UNIT VF GREEN; TROOPS 135 WIA, 132 KIA

UNIT CV; NIMITZ-CLASS 1 F KILLED

UNIT CV; NSSMS-LNCHR 3 K_KILLED, PRINTED BY: mds007

;ASSESSMENT REPORT;CV;AIR_TO_SURFACE;32SPG901122;060820ZJAN99;MANCON_2;BOGEY2;

UNIT CV; TROOPS 1410 WIA, 473 KIA

UNIT CV; NIMITZ-CLASS 1 F KILLED

UNIT CV; NSSMS-LNCHR 3 K_KILLED, PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_PURPLE; AIR_TO_SURFACE; 32SPG901122; 060820ZJAN99; MANCON_2; BOGEY2;

UNIT VF_PURPLE; TROOPS 135 WIA, 132 KIA PRINTED BY: mds007

:ASSESSMENT

REPORT; VF BLUE; AIR_TO_SURFACE; 32SPG901122; 060820ZJAN99; MANCON_2; BOGEY2;

UNIT VF_BLUE; TROOPS 135 WIA, 132 KIA PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_FLAG; AIR_TO_SURFACE; 32SPG901122; 060820ZJAN99; MANCON_2; BOGEY2;

UNIT VF_FLAG; TROOPS 135 WIA, 132 KIA PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_GREEN; AIR_TO_SURFACE; 32SPG901122; 060820ZJAN99; MANCON_2; BOGEY2;

UNIT VF_GREEN; TROOPS 135 WIA, 132 KIA PRINTED BY: mds007

;AIR MSN LAUNCH;BOGEY5;32SPF602645;060820ZJAN99;AGCON_1;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;UNIT MOVE ;INF_H/B;32SPF729830;060820ZJAN99;MANCON_3;COMMENCING MOVEMENT at 060820ZJAN99
PRINTED BY: mds007

;AIR RTE POINT;GCAP2;32SPG680125;060820ZJAN99;MANCON_2;AIR MISSION HAS REACHED AIR TO AIR LAUNCH POINT PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_GREEN; AIR_TO AIR; 32SPG862059; 060820ZJAN99; MANCON 2; GCAP2;

AIR MSN BOGEY2; SU-24-FENCER 1 K_KILLED, PRINTED BY: mds007

;ASSESSMENT REPORT;BOGEY2;AIR_TO_AIR;32SPG862059;060820ZJAN99;AGCON_1;GCAP2;

UNIT AGAIR1; SU-24-FENCER 1 K_KILLED, PRINTED BY: mds007

;AD ENGAGE END;GCAP2;32SPG828055;060820ZJAN99;MANCON_2;TERMINATING ENGAGEMENT WITH TRACK BH; ENEMY DESTROYED PRINTED BY: mds007

;AIR WPN LNCH;FCAS2;32SQG080209;060820ZJAN99;MANCON_1;AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT PRINTED BY: mds007

;STATUS CHANGE;PB2;32SQG042141;060820ZJAN99;AGCON_1; UNDER AIR ATTACK PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_FLAG; AIR_TO_SURFACE; 32SQG042141; 060820ZJAN99; MANCON_1; FCAS2;

UNIT PB2; TROOPS 18 WIA, 6 KIA

UNIT PB2; PC-BOAT 1 K_KILLED, PRINTED BY: mds007

; ASSESSMENT REPORT; SOF; AIR_TO_SURFACE; 32SQG042141; 060820ZJAN99; MANCON_1; FCAS2;

UNIT PB2; TROOPS 18 WIA, 6 KIA

UNIT PB2; PC-BOAT 1 K_KILLED, PRINTED BY: mds007

;ASSESSMENT REPORT;PB2;AIR_TO_SURFACE;32SQG042141;060820ZJAN99;AGCON_1;FCAS2;

UNIT PB2; TROOPS 18 WIA, 6 KIA

UNIT PB2; PC-BOAT 1 K_KILLED, PRINTED BY: mds007

;AIR MSN CANX;BOGEY2;32SPG862059;060820ZJAN99;AGCON_1;AIR MISSION CANCELED DUE TO LOSS OF AIRCRAFT PRINTED BY: mds007

;AIRCRAFT STAT;BOGEY2;32SPG862059;060820ZJAN99;AGCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 0; NON MISSION CAPABLE: 0; DESTROYED: 2. PRINTED BY: mds007

;UNIT MOVE ;INF_A/B;32SPF729830;060821ZJAN99;MANCON_3;COMMENCING MOVEMENT at 060821ZJAN99
PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; FROG4; 32SPF805916; 060821ZJAN99; AGCON_1; IS ENGAGED BY INF_A/P

PRINTED BY: mds007

;UNIT DEFENSIVE MISSION ;AGSUP;32SPF728830;060821ZJAN99;AGCON_1;HAS ASSUMED WITHDRAW MISSION DUE TO CPR (0.00000<=0.17000) PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; AGAIR; 32SPF728830; 060821ZJAN99; AGCON_1; HAS INITIATED ENGAGEMENT WITH INF_H/B PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; INF_H/B; 32SPF729830; 060821ZJAN99; MANCON_3; HAS INITIATED ENGAGEMENT WITH AGAIR PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_H/B;32SPF729830;060821ZJAN99;MANCON_3;HAS INITIATED ENGAGEMENT WITH AGSUP PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; INF_A/P; 32SPF784943; 060821ZJAN99; MANCON_4; HAS INITIATED ENGAGEMENT WITH ARTY1 PRINTED BY: mds007

;UNIT MOVE ;AGSUP;32SPF728830;060821ZJAN99;AGCON_1;COMMENCING MOVEMENT at 060821ZJAN99

PRINTED BY: mds007

;VISUAL DETECT CHANGE;AGSUP;32SPF728830;060821ZJAN99;AGCON_1;DETECTION AT 32SPF728830 IS A COMPANY SIZED INFANTRY UNIT, TRACK 3

, ID=INF_H/B TROOPS 182; SMAW 6; AT4-US 9; 60MM-MTR 3; M-16 132; SAW 27; M-203 27; M240-MG 6; PRINTED BY: mds007

;VISUAL DETECT;SOF;32SPF721993;060821ZJAN99;MANCON_1;HAVE DETECTED COMPANY SIZED LIGHT ARMOR UNIT AT 32SPG729013, TRACK 5

, ID=LDVEH3 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63;

PRINTED BY: mds007

;VISUAL DETECT STATUS;SILK1;32SPF595807;060821ZJAN99;AGCON_1;DETECTION AT 32SPF704553 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=INF_H/P PRINTED BY: mds007

; VISUAL DETECT STATUS; INF_H/P; 32SPF843933; 060821ZJAN99; MANCON_4; DETECTION AT 32SPG734187 HAS BEEN TEMPORARILY LOST, TRACK 5

, ID=SILK1 D-20 2; PRINTED BY: mds007

; VISUAL DETECT STATUS; VMV_PURPLE; 32SPF844929; 060821ZJAN99; MANCON_4; DETECTION AT 32SPG737184 HAS BEEN TEMPORARILY LOST, TRACK 5

, ID=SILK1 D-20 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;SILK1;32SPF595807;060821ZJAN99;AGCON_1;DETECTION AT 32SPF702552 HAS BEEN TEMPORARILY LOST, TRACK 4

, ID=VMV_PURPLE PRINTED BY: mds007

;AIR WPN LNCH;PCAS4;32SPF828955;060821ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT PRINTED BY: mds007

;STATUS CHANGE;ARTY1;32SPF784918;060821ZJAN99;AGCON_1; UNDER AIR ATTACK PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_PURPLE; AIR_TO_SURFACE; 32SPF784918; 060821ZJAN99; MANCON 4; PCAS4;

UNIT ARTY1; D-20 1 K_KILLED, 1 M_KILLED, PRINTED BY: mds007

;ASSESSMENT REPORT;SOF;AIR_TO_SURFACE;32SPF784918;060821ZJAN99;MANCON_1;PCAS4;

UNIT ARTY1; D-20 1 K_KILLED, 1 M_KILLED, PRINTED BY: mds007

; ASSESSMENT

REPORT; ARTY1; AIR_TO_SURFACE; 32SPF784918; 060821ZJAN99; AGCON_1; PCAS4;

UNIT ARTY1; D-20 1 K_KILLED, 1 M_KILLED, PRINTED BY: mds007

;UNIT MOVE ;LDVEH3;32SPG729015;060821ZJAN99;AGCON_1;COMMENCING MOVEMENT at 060821ZJAN99

PRINTED BY: mds007

;UNIT DESTINATION;LDVEH3;32SPG733010;060821ZJAN99;AGCON_1;HAVE REACHED ASSIGNED DESTINATION PRINTED BY: mds007

;OBJECT DETECT;INF H/B;32SPG815050;060821ZJAN99;MANCON 3;HAVE DETECTED ANTI PERSONNEL Minefield [% 0 DAMAGED] AT 32SPG815050; PRINTED BY: mds007

;OBJECT DETECT;INF_H/B;32SPG815050;060821ZJAN99;MANCON_3;HAVE DETECTED STRUCTURE AT 32SPG804064;
PRINTED BY: mds007

;OBJECT DETECT;INF_H/B;32SPG815050;060821ZJAN99;MANCON_3;HAVE DETECTED STRUCTURE AT 32SPG820051;
PRINTED BY: mds007

;VISUAL DETECT;INF_H/B;32SPG815050;060821ZJAN99;MANCON_3;HAVE DETECTED A SHIP AT 32SPG794065, TRACK 7

, ID=PB1 PC-BOAT 1; PRINTED BY: mds007

;VISUAL DETECT STATUS;AGSUP;32SPF728830;060821ZJAN99;AGCON_1;DETECTION AT 32SPF967831 HAS BEEN TEMPORARILY LOST, TRACK 3

, ID=INF_H/B TROOPS 182; SMAW 6; AT4-US 9; 60MM-MTR 3; M-16 132; SAW 27; M-203 27; M240-MG 6; PRINTED BY: mds007

; VISUAL DETECT STATUS; AGAIR; 32SPF728830; 060821ZJAN99; AGCON_1; DETECTION AT 32SPF967832 HAS BEEN TEMPORARILY LOST, TRACK 3

, ID=INF_H/B TROOPS 182; AT4-US 9; 60MM-MTR 3; M-16 132; SAW 27; M-203 27; M240-MG 6; SMAW 6; PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_H/B;32SPG815050;060821ZJAN99;MANCON_3;DETECTION AT 32SPG577048 HAS BEEN TEMPORARILY LOST, TRACK 5

, ID=AGAIR TROOPS 262; M-16 216; PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_H/B;32SPG815050;060821ZJAN99;MANCON_3;DETECTION AT 32SPG577048 HAS BEEN TEMPORARILY LOST, TRACK 6

, ID=AGSUP TROOPS 175; PRINTED BY: mds007

;AIR RTE POINT;GCAP2;32SPG680125;060822ZJAN99;MANCON_2;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT;FCAS2;32SPG901122;060822ZJAN99;MANCON_1;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;FCAS2;32SPG901122;060822ZJAN99;MANCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060822ZJAN99;MANCON_4;AIR TRACK BI (BOGEY5)
DETECTED AT 32SPF701878; TRACK IS HOSTILE
PRINTED BY: mds007

;AIR MSN ILLUMINATED;BOGEY5;32SPF701878;060822ZJAN99;AGCON_1;AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; AGSUP; 32SPF728830; 060822ZJAN99; AGCON_1; IS ENGAGED BY INF H/B

PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;AGAIR;32SPF728830;060822ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_H/B PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; INF_H/B; 32SPG815050; 060822ZJAN99; MANCON_3; HAS TERMINATED ENGAGEMENT, NO LOS WITH AGAIR PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; INF_H/B; 32SPG815050; 060822ZJAN99; MANCON_3; HAS TERMINATED ENGAGEMENT, NO LOS WITH AGAIR PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;AGAIR;32SPF728830;060822ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_H/B PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; INF_H/B; 32SPG815050; 060822ZJAN99; MANCON_3; HAS TERMINATED ENGAGEMENT, NO LOS WITH AGSUP
PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;AGSUP;32SPF728830;060822ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_H/B PRINTED BY: mds007

;REPORT; GROUND_ENGAGEMENT 5;32SPG815050;060822ZJAN99;AGCON_1,MANCON_3;

Initial engagement times:

AGAIR; 060814ZJAN99

INF A/B; 060814ZJAN99

AGSUP; 060816ZJAN99

INF H/B; 060821ZJAN99

Cumulative losses:

UNIT AGAIR; TROOPS 80 WIA, 1 KIA

UNIT INF_A/B; TROOPS 5 WIA,

Incremental losses (increases since the last report)

UNIT INF A/B; TROOPS 5 WIA,

UNIT AGAIR; TROOPS 80 WIA, 1 KIA

PRINTED BY: mds007

;AIR MSN LAUNCH;BOGEY6;32SPF602645;060822ZJAN99;AGCON_1;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH;ASW8;32SQF098985;060822ZJAN99;MANCON_2;CRUISE MISSILE HAS LAUNCHED

PRINTED BY: mds007

; VISUAL DETECT STATUS; FROG2; 32SPF522782; 060822ZJAN99; AGCON_1; DETECTION AT 32SPG577117 HAS BEEN LOST, TRACK 2

, ID=INF_A/P TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT STATUS;FROG2;32SPF522782;060822ZJAN99;AGCON_1;DETECTION AT 32SPF820991 HAS BEEN LOST, TRACK 4

, ID=AAAV/P AAAV 1; PRINTED BY: mds007

; VISUAL DETECT STATUS; INF_A/P; 32SPF784943; 060822ZJAN99; MANCON_4; DETECTION AT 32SPF731609 HAS BEEN LOST, TRACK 4

, ID=FROG2 FROG-7-SSM 1; TROOPS 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;FROG2;32SPF522782;060822ZJAN99;AGCON_1;DETECTION AT 32SPG723074 HAS BEEN LOST, TRACK 7

, ID=INF_H/P PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_H/P;32SPF843933;060822ZJAN99;MANCON_4;DETECTION AT 32SPF645640 HAS BEEN LOST, TRACK 2

, ID=FROG2 FROG-7-SSM 1; PRINTED BY: mds007

;VISUAL DETECT STATUS;FROG2;32SPF522782;060822ZJAN99;AGCON_1;DETECTION AT 32SPG745057 HAS BEEN LOST, TRACK 8

, ID=VMV_PURPLE MV-22 24; TROOPS 208; PRINTED BY: mds007

; VISUAL DETECT STATUS; VMV_PURPLE; 32SPF844929; 060822ZJAN99; MANCON_4; DETECTION AT 32SPF623654 HAS BEEN LOST, TRACK 2

, ID=FROG2 FROG-7-SSM 1; TROOPS 2; PRINTED BY: mds007

; VISUAL DETECT STATUS; SILK2; 32SPF596796; 060822ZJAN99; AGCON_1; DETECTION AT 32SPG753049 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=SMC TROOPS 257; PRINTED BY: mds007

;AIR RTE POINT;GCAP3;32SPG697125;060823ZJAN99;MANCON_2;AIR MISSION HAS REACHED AIR TO AIR LAUNCH POINT PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_GREEN; AIR_TO_AIR; 32SPF753980; 060823ZJAN99; MANCON_2; GCAP3;

AIR MSN BOGEY5; SU-24-FENCER 1 K_KILLED, PRINTED BY: mds007

;ASSESSMENT REPORT;BOGEY5;AIR_TO_AIR;32SPF753980;060823ZJAN99;AGCON 1;GCAP3;

UNIT AGAIR1; SU-24-FENCER 1 K_KILLED, PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060823ZJAN99;MANCON_4;AIR TRACK BJ (ASW8) DETECTED AT 32SQF088993; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR RTE POINT;PCAS4;32SPG901122;060823ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;PCAS4;32SPG901122;060823ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED:

PRINTED BY: mds007

;AIR RTE POINT;ASW8;32SQF098985;060823ZJAN99;MANCON_2;CRUISE MISSILE HAS REACHED ATTACK POINT PRINTED BY: mds007

;STATUS CHANGE;SUB2;32SQF098985;060823ZJAN99;AGCON_1; UNDER AIR ATTACK PRINTED BY: mds007

;ASSESSMENT REPORT;FFG;AIR_TO_SURFACE;32SQF098985;060823ZJAN99;MANCON_2;

NO ASSESSMENT; Msn# ASW8

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; ARTY1; 32SPF784918; 060823ZJAN99; AGCON_1; IS ENGAGED BY INF A/P

PRINTED BY: mds007

;VISUAL DETECT;SILK5;32SPF863880;060823ZJAN99;AGCON_1;HAVE DETECTED A SHIP AT 32SPF876894, TRACK 3

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ID=SMC TROOPS 257:
PRINTED BY: mds007
 ; VISUAL DETECT; FROG5; 32SPF819943; 060823ZJAN99; AGCON 1; HAVE DETECTED SQUADRON
SIZED AVIATION UNIT AT 32SPF843930, TRACK 2
, ID=VMV PURPLE MV-22 24; TROOPS 207;
PRINTED BY: mds007
; VISUAL DETECT; FROG5; 32SPF819943; 060823ZJAN99; AGCON 1; HAVE DETECTED COMPANY
SIZED INFANTRY UNIT AT 32SPF841933, TRACK 3
 , ID=INF H/P TROOPS 181:
PRINTED BY: mds007
; VISUAL DETECT; FROG5; 32SPF819943; 060823ZJAN99; AGCON_1; HAVE DETECTED COMPANY
SIZED INFANTRY UNIT AT 32SPF786943, TRACK 4
 , ID=INF A/P
PRINTED BY: mds007
;VISUAL DETECT;FROG5;32SPF819943;060823ZJAN99;AGCON_1;HAVE DETECTED A SHIP AT
32SPF855927, TRACK 5
 ID=AAAV/P AAAV 1;
PRINTED BY: mds007
; VISUAL DETECT; VMV PURPLE; 32SPF844929; 060823ZJAN99; MANCON 4; HAVE DETECTED
SECTION SIZED ARTILLERY UNIT AT 32SPF821942, TRACK 7
 ID=FROG5 FROG-7-SSM 1; TROOPS 4;
PRINTED BY: mds007
; VISUAL DETECT; INF_H/P; 32SPF843933; 060823ZJAN99; MANCON 4; HAVE DETECTED SECTION
SIZED ARTILLERY UNIT AT 32SPF822942, TRACK 7
 ID=FROG5 FROG-7-SSM 1; TROOPS 4;
PRINTED BY: mds007
; VISUAL DETECT; INF_A/P; 32SPF784943; 060823ZJAN99; MANCON 4; HAVE DETECTED SECTION
SIZED ARTILLERY UNIT AT 32SPF818943, TRACK 8
 ID=FROG5 FROG-7-SSM 1;
PRINTED BY: mds007
; VISUAL DETECT STATUS; FROG4; 32SPF523741; 060823ZJAN99; AGCON_1; DETECTION AT
32SPG320000 HAS BEEN TEMPORARILY LOST, TRACK 3
 ID=INF A/P TROOPS 182:
PRINTED BY: mds007
; VISUAL DETECT STATUS; VMV PURPLE; 32SPF844929; 060823ZJAN99; MANCON 4; DETECTION
AT 32SPF492808 HAS BEEN TEMPORARILY LOST, TRACK 6
 ID=FROG4 FROG-7-SSM 1;
PRINTED BY: mds007
; VISUAL DETECT STATUS; INF H/P; 32SPF843933; 060823ZJAN99; MANCON 4; DETECTION AT
32SPF501784 HAS BEEN TEMPORARILY LOST, TRACK 6
, ID=FROG4 FROG-7-SSM 1;
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PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_A/P;32SPF784943;060823ZJAN99;MANCON_4;DETECTION AT 32SPF989684 HAS BEEN TEMPORARILY LOST, TRACK 6

, ID=FROG4 FROG-7-SSM 1; TROOPS 4; PRINTED BY: mds007

;AIR RTE POINT;GCAP3;32SPG697125;060823ZJAN99;MANCON_2;AIR MISSION HAS REACHED AIR TO AIR LAUNCH POINT PRINTED BY: mds007

: ASSESSMENT

REPORT; VF GREEN; AIR TO AIR; 32SPG817016; 060823ZJAN99; MANCON_2; GCAP3;

AIR MSN BOGEY5; SU-24-FENCER 1 K_KILLED, PRINTED BY: mds007

; ASSESSMENT REPORT; BOGEY5; AIR TO AIR; 32SPG817016; 060823ZJAN99; AGCON 1; GCAP3;

UNIT AGAIR1; SU-24-FENCER 1 K_KILLED, PRINTED BY: mds007

;AD ENGAGE END;GCAP3;32SPG815039;060823ZJAN99;MANCON_2;TERMINATING ENGAGEMENT WITH TRACK BI; ENEMY DESTROYED PRINTED BY: mds007

;AIR MSN CANX;BOGEY5;32SPG817016;060823ZJAN99;AGCON_1;AIR MISSION CANCELED DUE TO LOSS OF AIRCRAFT PRINTED BY: mds007

;AIRCRAFT STAT;BOGEY5;32SPG817016;060823ZJAN99;AGCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 0; NON MISSION CAPABLE: 0; DESTROYED: 2 PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060823ZJAN99;MANCON_4;AIR TRACK BK (BOGEY6)
DETECTED AT 32SPF758747; TRACK IS HOSTILE
PRINTED BY: mds007

;AIR MSN ILLUMINATED;BOGEY6;32SPF758747;060823ZJAN99;AGCON_1;AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR PRINTED BY: mds007

;UNIT MOVE ;INF_A/B;32SPF729830;060823ZJAN99;MANCON_3;COMMENCING MOVEMENT at 060823ZJAN99
PRINTED BY: mds007

;SHIP MOVE;PB3;32SQF030799;060824ZJAN99;AGCON_1;HAVE COMMENCED MOVEMENT PRINTED BY: mds007

;AIR WPN LNCH;PCAS5;32SPF828955;060824ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT PRINTED BY: mds007

;STATUS CHANGE;LDVEH3;32SPG733010;060824ZJAN99;AGCON_1; UNDER AIR ATTACK PRINTED BY: mds007

; ASSESSMENT REPORT; VF PURPLE; AIR_TO_SURFACE; 32SPG733010; 060824ZJAN99; MANCON_4; PCAS5;

UNIT LDVEH3; TROOPS 9 WIA, 4 KIA

UNIT LDVEH3; LAV-MTR 2 K_KILLED, PRINTED BY: mds007

; ASSESSMENT REPORT; SOF; AIR_TO_SURFACE; 32SPG733010; 060824ZJAN99; MANCON 1; PCAS5;

UNIT LDVEH3; TROOPS 9 WIA, 4 KIA

UNIT LDVEH3; LAV-MTR 2 K_KILLED, PRINTED BY: mds007

; ASSESSMENT

REPORT; LDVEH3; AIR_TO_SURFACE; 32SPG733010; 060824ZJAN99; AGCON 1; PCAS5;

UNIT LDVEH3; TROOPS 9 WIA, 4 KIA

UNIT LDVEH3; LAV-MTR 2 K_KILLED, PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060824ZJAN99;MANCON_4;SURFACE TRACK BL (PB3) DETECTED AT 32SQF030799; TRACK IS HOSTILE PRINTED BY: mds007

;UNIT DEFENSIVE MISSION ;AGAIR;32SPF728830;060824ZJAN99;AGCON_1;HAS ASSUMED WITHDRAW MISSION DUE TO CPR (0.16299<=0.17000) PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; FROG4; 32SPF523741; 060824ZJAN99; AGCON_1; HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_A/P PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; INF A/P; 32SPF784943; 060824ZJAN99; MANCON_4; HAS TERMINATED ENGAGEMENT, NO LOS WITH FROG4 PRINTED BY: mds007

;UNIT MOVE ;AGAIR;32SPF728830;060824ZJAN99;AGCON_1;COMMENCING MOVEMENT at 060824ZJAN99
PRINTED BY: mds007

;VISUAL DETECT STATUS;SOF;32SPF720992;060824ZJAN99;MANCON_1;DETECTION AT 32SPF889525 HAS BEEN TEMPORARILY LOST, TRACK 3

, ID=LDVEH2 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63;

PRINTED BY: mds007

;VISUAL DETECT STATUS;SOF;32SPF720992;060824ZJAN99;MANCON_1;DETECTION AT 32SQG107305 HAS BEEN TEMPORARILY LOST, TRACK 4

, ID=LDVEH1 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63;

PRINTED BY: mds007

;SHIP MOVE; PB1; 32SPG803059; 060824ZJAN99; AGCON_1; HAVE REACHED DESTINATION PRINTED BY: mds007

;AIR RTE POINT;GCAP4;32SPG712126;060824ZJAN99;MANCON_2;AIR MISSION HAS REACHED AIR TO AIR LAUNCH POINT PRINTED BY: mds007

;AD ENGAGE NOTIFY;BOGEY6;32SPF844818;060824ZJAN99;AGCON_1;

BOGEY6 HAS BEEN FIRED ON BY AAM - NO HITS PRINTED BY: mds007

;ASSESSMENT REPORT; VF GREEN; AIR TO AIR; 32SPG798037; 060824ZJAN99; MANCON_2;

NO ASSESSMENT; Msn# GCAP4

PRINTED BY: mds007

;AIR RTE POINT;GCAP3;32SPG697125;060824ZJAN99;MANCON_2;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR WPN LNCH;PCAS6;32SPF828955;060824ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT PRINTED BY: mds007

; ASSESSMENT

REPORT; VF PURPLE; AIR TO SURFACE; 31NAA661000; 060824ZJAN99; MANCON_4; PCAS6;

CE_PRODUCT BR1; CE Product damage level increased 99 percent. PRINTED BY: mds007

; ASSESSMENT REPORT; SOF; AIR_TO_SURFACE; 31NAA661000; 060824ZJAN99; MANCON 1; PCAS6;

CE_PRODUCT BR1; CE Product damage level increased 99 percent. PRINTED BY: mds007

;AIR RTE POINT;GCAP4;32SPG712126;060824ZJAN99;MANCON_2;AIR MISSION HAS REACHED AIR TO AIR LAUNCH POINT PRINTED BY: mds007

:ASSESSMENT

REPORT; VF_GREEN; AIR_TO_AIR; 32SPF897852; 060824ZJAN99; MANCON_2; GCAP4;

AIR MSN BOGEY6; SU-24-FENCER 1 K_KILLED, PRINTED BY: mds007

;ASSESSMENT REPORT;BOGEY6;AIR_TO_AIR;32SPF897852;060824ZJAN99;AGCON_1;GCAP4;

UNIT AGAIR1; SU-24-FENCER 1 K_KILLED, PRINTED BY: mds007

;VISUAL DETECT;AGSUP;32SPF728830;060824ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED MEDICAL UNIT AT 32SPF728830, TRACK 5

, ID=MED/B TRAILER-WATER-300G 3; 5.0-TRUCK 3; HMMWV-AMBUL 9; HMMWV 3; TROOPS 201; SAW 2; AT4-US 2; M-16 216; M240-MG 1; .50CAL-MG 1; PRINTED BY: mds007

; VISUAL DETECT; AGAIR; 32SPF728829; 060824ZJAN99; AGCON_1; HAVE DETECTED COMPANY SIZED MEDICAL UNIT AT 32SPF728829, TRACK 5

, ID=MED/B TRAILER-WATER-300G 3; 5.0-TRUCK 3; HMMWV-AMBUL 9; HMMWV 3; TROOPS 201; SAW 2; AT4-US 2; M-16 216; M240-MG 1; .50CAL-MG 1; PRINTED BY: mds007

;OBJECT DETECT;SOF;32SPF720992;060824ZJAN99;MANCON_1;HAVE DETECTED BRIDGE [% 99 DAMAGED] AT 32SPG740005; PRINTED BY: mds007

;OBJECT DETECT;ENG;32SPG812046;060824ZJAN99;MANCON 1;HAVE DETECTED ANTI_PERSONNEL Minefield [% 0 DAMAGED] AT 32SPG815048; PRINTED BY: mds007

;OBJECT DETECT;ENG;32SPG812046;060824ZJAN99;MANCON_1;HAVE DETECTED STRUCTURE AT 32SPG804064;
PRINTED BY: mds007

;OBJECT DETECT;ENG;32SPG812046;060824ZJAN99;MANCON_1;HAVE DETECTED STRUCTURE AT 32SPG820051;
PRINTED BY: mds007

;VISUAL DETECT;ENG;32SPG812046;060824ZJAN99;MANCON_1;HAVE DETECTED A SHIP AT 32SPG805057, TRACK 8

, ID=PB1 PC-BOAT 1; PRINTED BY: mds007

;VISUAL DETECT;MED/B;32SPF730829;060824ZJAN99;MANCON_3;HAVE DETECTED SQUADRON SIZED AVIATION UNIT AT 32SPF730829, TRACK 2

, ID=AGAIR TROOPS 192; M-16 215; PRINTED BY: mds007

; VISUAL DETECT; MED/B; 32SPF730829; 060824ZJAN99; MANCON_3; HAVE DETECTED COMPANY SIZED SUPPLY UNIT AT 32SPF730829, TRACK 3

, ID=AGSUP TROOPS 175; PRINTED BY: mds007

; VISUAL DETECT STATUS; AGSUP; 32SPF728830; 060824ZJAN99; AGCON_1; DETECTION AT 32SPG734061 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; X-TANK 4; HMMWV 9; SEE 2; PRINTED BY: mds007

;VISUAL DETECT STATUS; AGAIR; 32SPF728829; 060824ZJAN99; AGCON_1; DETECTION AT 32SPG729061 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; X-TANK 4; HMMWV 9; SEE 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;ENG;32SPG812046;060824ZJAN99;MANCON_1;DETECTION AT 32SPF812814 HAS BEEN TEMPORARILY LOST, TRACK 5

, ID=AGAIR
PRINTED BY: mds007

;VISUAL DETECT STATUS;ENG;32SPG812046;060824ZJAN99;MANCON_1;DETECTION AT 32SPF807814 HAS BEEN TEMPORARILY LOST, TRACK 6

, ID=AGSUP PRINTED BY: mds007

;VISUAL DETECT STATUS;SOF;32SPF720992;060824ZJAN99;MANCON_1;DETECTION AT 32SQG010396 HAS BEEN TEMPORARILY LOST, TRACK 5

- , ID=LDVEH3 LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 67; PRINTED BY: mds007
- ; ENGAGEMENT STATUS CHANGE ; AGAIR; 32SPF728829; 060825ZJAN99; AGCON_1; HAS INITIATED ENGAGEMENT WITH MED/B PRINTED BY: mds007
- ;ENGAGEMENT STATUS CHANGE;MED/B;32SPF730829;060825ZJAN99;MANCON_3;HAS INITIATED ENGAGEMENT WITH AGAIR PRINTED BY: mds007
- ;ENGAGEMENT STATUS CHANGE ;MED/B;32SPF730829;060825ZJAN99;MANCON_3;HAS INITIATED ENGAGEMENT WITH AGSUP PRINTED BY: mds007
- ;AIR RTE POINT;PCAS5;32SPG901122;060825ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007
- .;AIRCRAFT STAT;PCAS5;32SPG901122;060825ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0
 PRINTED BY: mds007
- ;AIR RTE POINT;GCAP4;32SPG712126;060825ZJAN99;MANCON_2;AIR MISSION HAS REACHED AIR TO AIR LAUNCH POINT PRINTED BY: mds007
- ; ASSESSMENT REPORT; VF_GREEN; AIR_TO_AIR; 32SPF909883; 060825ZJAN99; MANCON_2; GCAP4;

AIR MSN BOGEY6; SU-24-FENCER 1 K_KILLED, PRINTED BY: mds007

;ASSESSMENT REPORT;BOGEY6;AIR_TO_AIR;32SPF909883;060825ZJAN99;AGCON_1;GCAP4;

UNIT AGAIR1; SU-24-FENCER 1 K_KILLED, PRINTED BY: mds007

;AD ENGAGE END;GCAP4;32SPF886913;060825ZJAN99;MANCON_2;TERMINATING ENGAGEMENT WITH TRACK BK; ENEMY DESTROYED PRINTED BY: mds007

;AIR MSN LAUNCH;HELO2;32SPF602645;060825ZJAN99;AGCON_1;AIR MISSION HAS LAUNCHED PRINTED BY: mds007

;AIR MSN CANX;BOGEY6;32SPF909883;060825ZJAN99;AGCON_1;AIR MISSION CANCELED DUE TO LOSS OF AIRCRAFT PRINTED BY: mds007

;AIRCRAFT STAT;BOGEY6;32SPF909883;060825ZJAN99;AGCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 0; NON MISSION CAPABLE: 0; DESTROYED: 2 PRINTED BY: mds007

;AIR RTE POINT;AA86;32SPF625617;060825ZJAN99;AGCON_1;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;AA86;32SPF625617;060825ZJAN99;AGCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0

PRINTED BY: mds007

;VISUAL DETECT CHANGE;AGAIR1;32SPF602645;060825ZJAN99;AGCON_1;DETECTION AT 32SPF623620 IS A SQUADRON SIZED AIR SQUADRON UNIT, TRACK 2

, ID=COMAIR BOEING-747 45; PRINTED BY: mds007

;VISUAL DETECT STATUS;ARTY1;32SPF578807;060825ZJAN99;AGCON_1;DETECTION AT 32SPG578054 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=INF_A/P TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_A/P;32SPF784943;060825ZJAN99;MANCON_4;DETECTION AT 32SPF784696 HAS BEEN TEMPORARILY LOST, TRACK 7

, ID=ARTY1 D-20 1; TROOPS 8; PRINTED BY: mds007

;AIR RTE POINT;UA18;32SPF625617;060825ZJAN99;AGCON_1;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;UA18;32SPF625617;060825ZJAN99;AGCON 1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;SHIP MOVE;SUB3;32SQF161978;060826ZJAN99;AGCON_1;HAVE COMMENCED MOVEMENT PRINTED BY: mds007

;AIR RTE POINT;PCAS6;32SPG901122;060826ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;PCAS6;32SPG901122;060826ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED:

PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060826ZJAN99;MANCON_4;SURFACE TRACK BM (SUB3) DETECTED AT 32SQF161978; TRACK IS HOSTILE PRINTED BY: mds007

;AIR MSN LAUNCH;GCAP6;32SPG901122;060826ZJAN99;MANCON_2;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE;AGSUP;32SPF727830;060826ZJAN99;AGCON_1;IS ENGAGED BY MED/B

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; ARTY1; 32SPF578807; 060826ZJAN99; AGCON_1; HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_A/P PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_A/P;32SPF775953;060826ZJAN99;MANCON_4;HAS TERMINATED ENGAGEMENT, NO LOS WITH ARTY1
PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; INF_A/P; 32SPF775953; 060826ZJAN99; MANCON_4; HAS TERMINATED ENGAGEMENT, NO LOS WITH ARTY1 PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;ARTY1;32SPF578807;060826ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_A/P PRINTED BY: mds007

;UNIT CASUALTY LIMIT ;AGAIR;32SPF728829;060826ZJAN99;AGCON_1;HAS REACHED EFFECTIVE CASUALTY LIMIT PRINTED BY: mds007

; REPORT; GROUND ENGAGEMENT 6; 32SPF775953; 060826ZJAN99; MANCON_4, AGCON_1;

NO ASSESSMENT; PRINTED BY: mds007

;UNIT MOVE ;TANK2;32SPG785004;060826ZJAN99;AGCON_1;COMMENCING MOVEMENT at 060826ZJAN99

PRINTED BY: mds007

;AIR MSN LAUNCH;GCAP7;32SPG901122;060826ZJAN99;MANCON_2;AIR MISSION HAS LAUNCHED PRINTED BY: mds007

; VISUAL DETECT CHANGE; AGAIR1; 32SPF602645; 060826ZJAN99; AGCON_1; DETECTION AT 32SPF623620 IS A SQUADRON SIZED AIR SQUADRON UNIT, TRACK 2

, ID=COMAIR BOEING-747 46; PRINTED BY: mds007

; VISUAL DETECT; INF_A/P; 32SPF775953; 060826ZJAN99; MANCON_4; HAVE DETECTED COMPANY SIZED TANK UNIT AT 32SPF782991, TRACK 9

, ID=TANK2 HMMWV-TOW 8; M1A1 14; PRINTED BY: mds007

;VISUAL DETECT STATUS;SILK5;32SPF863880;060826ZJAN99;AGCON_1;DETECTION AT 32SPF792971 HAS BEEN LOST, TRACK 2

, ID=INF_A/B PRINTED BY: mds007

;VISUAL DETECT STATUS;ENG;32SPG812046;060826ZJAN99;MANCON_1;DETECTION AT 32SPF875944 HAS BEEN LOST, TRACK 7

, ID=SILK5 D-20 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_A/B;32SPF729830;060826ZJAN99;MANCON_3;DETECTION AT 32SPF801738 HAS BEEN LOST, TRACK 5

, ID=SILK5 D-20 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;FROG5;32SPF819943;060826ZJAN99;AGCON_1;DETECTION AT 32SPF774943 HAS BEEN TEMPORARILY LOST, TRACK 4

, ID=INF_A/P PRINTED BY: mds007 ;VISUAL DETECT STATUS;INF_A/P;32SPF775953;060826ZJAN99;MANCON_4;DETECTION AT 32SPF821952 HAS BEEN TEMPORARILY LOST, TRACK 8

, ID=FROG5 FROG-7-SSM 1;

PRINTED BY: mds007

;AIR MSN LAUNCH;GCAP8;32SPG901122;060826ZJAN99;MANCON_2;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060826ZJAN99;MANCON_4;AIR TRACK BN (GCAP8) DETECTED AT 32SPG865116; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060826ZJAN99;MANCON_4;AIR TRACK BO (GCAP7) DETECTED AT 32SPG866112; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060826ZJAN99;MANCON_4;AIR TRACK BP (GCAP6) DETECTED AT 32SPG828112; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR MSN LAUNCH;GCAP9;32SPG901122;060826ZJAN99;MANCON_2;AIR MISSION HAS LAUNCHED PRINTED BY: mds007

;AIR RTE POINT;BCAS11;32SPF820942;060826ZJAN99;MANCON_3;AIR MISSION HAS REACHED ATTACK POINT PRINTED BY: mds007

;STATUS CHANGE;FROG5;32SPF819943;060826ZJAN99;AGCON_1; RECEIVING AIR-TO-SURFACE FIRE PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_BLUE; AIR_TO_SURFACE; 31NAA661000; 060826ZJAN99; MANCON_3; BCAS11;

CE_PRODUCT NORTH RD; No damage assessed. PRINTED BY: mds007

; ASSESSMENT

REPORT; INF_A/B; AIR_TO_SURFACE; 31NAA661000; 060826ZJAN99; MANCON 3; BCAS11;

CE_PRODUCT NORTH RD; No damage assessed. PRINTED BY: mds007

;AIR MSN LAUNCH;GCAP10;32SPG901122;060827ZJAN99;MANCON_2;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR WPN LNCH;FCAS4;32SPG950139;060827ZJAN99;MANCON_1;AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT PRINTED BY: mds007

;STATUS CHANGE;PB1;32SPG803059;060827ZJAN99;AGCON_1; UNDER AIR ATTACK PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_FLAG; AIR_TO_SURFACE; 32SPG803059; 060827ZJAN99; MANCON 1; FCAS4;

UNIT PB1; TROOPS 21 WIA, 9 KIA

UNIT PB1; PC-BOAT 1 K_KILLED, PRINTED BY: mds007

; ASSESSMENT REPORT; SOF; AIR_TO_SURFACE; 32SPG803059; 060827ZJAN99; MANCON 1; FCAS4;

UNIT PB1; TROOPS 21 WIA, 9 KIA

UNIT PB1; PC-BOAT 1 K_KILLED, PRINTED BY: mds007

;ASSESSMENT REPORT;PB1;AIR TO SURFACE;32SPG803059;060827ZJAN99;AGCON_1;FCAS4;

UNIT PB1; TROOPS 21 WIA, 9 KIA

UNIT PB1; PC-BOAT 1 K_KILLED, PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060827ZJAN99;MANCON_4;AIR TRACK BQ (GCAP10) DETECTED AT 32SPG867109; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060827ZJAN99;MANCON_4;AIR TRACK BR (GCAP9) DETECTED AT 32SPG830102; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR RTE POINT;FCAS4;32SPG901122;060827ZJAN99;MANCON_1;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;FCAS4;32SPG901122;060827ZJAN99;MANCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;AIR RTE POINT;GCAP4;32SPG712126;060827ZJAN99;MANCON_2;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR MSN LAUNCH;ASW9;32SQF148977;060827ZJAN99;MANCON_2;CRUISE MISSILE HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH;LU812;32SPF625617;060827ZJAN99;AGCON_1;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH;BOGEY7;32SPF602645;060827ZJAN99;AGCON_1;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060827ZJAN99;MANCON_4;AIR TRACK BS (LU812)
DETECTED AT 32SPF634648; TRACK IS SUSPECT
PRINTED BY: mds007

;AIR MSN ILLUMINATED;LU812;32SPF634648;060827ZJAN99;AGCON_1;AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060827ZJAN99;MANCON_4;AIR TRACK BT (ASW9) DETECTED AT 32SQG067023; TRACK IS FRIENDLY

PRINTED BY: mds007

;AIR RTE POINT;GCAP6;32SPG652088;060827ZJAN99;MANCON_2;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT;GCAP7;32SPG654058;060827ZJAN99;MANCON_2;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;OBJECT DETECT;SILK4;32SPG824041;060827ZJAN99;AGCON_1;HAVE DETECTED STRUCTURE AT 32SPG804064; PRINTED BY: mds007

;OBJECT DETECT;SILK4;32SPG824041;060827ZJAN99;AGCON_1;HAVE DETECTED STRUCTURE AT 32SPG821051;
PRINTED BY: mds007

;VISUAL DETECT;SILK4;32SPG824041;060827ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED ENGINEER UNIT AT 32SPG814045, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82; PRINTED BY: mds007

;VISUAL DETECT;SILK4;32SPG824041;060827ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPG821046, TRACK 3

, ID=INF_H/B TROOPS 182; SMAW 6; PRINTED BY: mds007

; VISUAL DETECT; TANK2; 32SPF780981; 060827ZJAN99; AGCON_1; HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF776955, TRACK 2

, ID=INF_A/P TROOPS 182; PRINTED BY: mds007

; VISUAL DETECT; ENG; 32SPG812046; 060827ZJAN99; MANCON_1; HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPG823042, TRACK 9

, ID=SILK4 D-20 2; TROOPS 8; PRINTED BY: mds007

;VISUAL DETECT;INF_H/B;32SPG819048;060827ZJAN99;MANCON_3;HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPG823043, TRACK 8

, ID=SILK4 D-20 2; TROOPS 8; PRINTED BY: mds007

;VISUAL DETECT STATUS;AGSUP;32SPF727830;060827ZJAN99;AGCON_1;DETECTION AT 32SQF067829 HAS BEEN TEMPORARILY LOST, TRACK 5

, ID=MED/B TRAILER-WATER-300G 3; 5.0-TRUCK 3; HMMWV-AMBUL 9; HMMWV 3; TROOPS 200; SAW 2; AT4-US 2; M-16 216; M240-MG 1; .50CAL-MG 1; PRINTED BY: mds007

;VISUAL DETECT STATUS;AGAIR;32SPF728829;060827ZJAN99;AGCON_1;DETECTION AT 32SQF068849 HAS BEEN TEMPORARILY LOST, TRACK 5

, ID=MED/B TRAILER-WATER-300G 3; 5.0-TRUCK 3; HMMWV-AMBUL 9; HMMWV 3; TROOPS 200; SAW 2; AT4-US 2; M-16 216; M240-MG 1; .50CAL-MG 1; PRINTED BY: mds007

;VISUAL DETECT STATUS;MED/B;32SPG901121;060827ZJAN99;MANCON_3;DETECTION AT 32SPG562100 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=AGAIR TROOPS 168; M-16 215; PRINTED BY: mds007

;VISUAL DETECT STATUS;MED/B;32SPG901121;060827ZJAN99;MANCON_3;DETECTION AT 32SPG561120 HAS BEEN TEMPORARILY LOST, TRACK 3

, ID=AGSUP TROOPS 157; PRINTED BY: mds007

;AIR RTE POINT;GCAP8;32SPG678089;060828ZJAN99;MANCON_2;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

; REPORT; GROUND ENGAGEMENT 5; 32SPG901121; 060828ZJAN99; AGCON_1, MANCON_3;

Initial engagement times:

AGAIR; 060814ZJAN99

INF A/B; 060814ZJAN99

AGSUP; 060816ZJAN99

MED/B; 060825ZJAN99

Cumulative losses:

UNIT AGAIR; TROOPS 178 WIA, 10 KIA

UNIT INF A/B; TROOPS 15 WIA,

UNIT AGSUP; TROOPS 27 WIA,

UNIT MED/B; TROOPS 2 WIA,

Incremental losses (increases since the last report)

UNIT INF A/B; TROOPS 10 WIA,

UNIT AGAIR; TROOPS 98 WIA, 9 KIA

UNIT MED/B; TROOPS 2 WIA,

UNIT AGSUP; TROOPS 27 WIA,

PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;AGSUP;32SPF727830;060828ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH MED/B PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; MED/B; 32SPG901121; 060828ZJAN99; MANCON_3; HAS TERMINATED ENGAGEMENT, NO LOS WITH AGSUP PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; AGAIR; 32SPF728829; 060828ZJAN99; AGCON_1; HAS TERMINATED ENGAGEMENT, NO LOS WITH MED/B PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;MED/B;32SPG901121;060828ZJAN99;MANCON_3;HAS TERMINATED ENGAGEMENT, NO LOS WITH AGAIR PRINTED BY: mds007

;UNIT MOVE ;AGAIR;32SPF728829;060828ZJAN99;AGCON_1;NOT ENOUGH TROOPS FOR MOVEMENT PRINTED BY: mds007

;UNIT DEFENSIVE MISSION ;SILK4;32SPG824041;060828ZJAN99;AGCON_1;HAS ASSUMED WITHDRAW MISSION DUE TO CPR (0.00000<=0.17000) PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; ENG; 32SPG812046; 060828ZJAN99; MANCON_1; HAS INITIATED ENGAGEMENT WITH SILK4
PRINTED BY: mds007

;UNIT MOVE ;SILK4;32SPG824041;060828ZJAN99;AGCON_1;TOWING REQUIREMENTS NOT MET PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_H/B;32SPG819048;060828ZJAN99;MANCON_3;HAS INITIATED ENGAGEMENT WITH SILK4
PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_A/P;32SPF775953;060828ZJAN99;MANCON_4;HAS INITIATED ENGAGEMENT WITH TANK2
PRINTED BY: mds007

;AIR MSN LAUNCH;PCAS7;32SPG901122;060828ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS LAUNCHED PRINTED BY: mds007

;AIR RTE POINT;ASW9;32SQF135976;060828ZJAN99;MANCON_2;CRUISE MISSILE HAS REACHED ATTACK POINT PRINTED BY: mds007

;STATUS CHANGE;SUB3;32SQF135976;060828ZJAN99;AGCON_1; UNDER AIR ATTACK PRINTED BY: mds007

; ASSESSMENT REPORT; FFG; AIR_TO_SURFACE; 32SQF135976; 060828ZJAN99; MANCON_2; ASW9;

UNIT SUB3; SUBMARINE 1 M_KILLED, PRINTED BY: mds007

; ASSESSMENT REPORT; SUB3; AIR_TO_SURFACE; 32SQF135976; 060828ZJAN99; AGCON_1; ASW9;

UNIT SUB3; SUBMARINE 1 M_KILLED, PRINTED BY: mds007

;AIR RTE POINT;BCAS11;32SPG901122;060828ZJAN99;MANCON_3;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;BCAS11;32SPG901122;060828ZJAN99;MANCON_3;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;AIR RTE POINT;GCAP9;32SPG677059;060828ZJAN99;MANCON_2;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT;GCAP10;32SPG656031;060828ZJAN99;MANCON_2;AIR MISSION HAS REACHED ORBIT POINT PRINTED BY: mds007

;AIR RTE POINT;BCAS12;32SPF781995;060828ZJAN99;MANCON_3;AIR MISSION HAS REACHED ATTACK POINT PRINTED BY: mds007

; ASSESSMENT

REPORT; VF BLUE; AIR TO_SURFACE; 31NAA661000; 060828ZJAN99; MANCON_3; BCAS12;

CE PRODUCT WEST RD; No damage assessed.

CE_PRODUCT NORTH RD; No damage assessed. PRINTED BY: mds007

; ASSESSMENT

REPORT; INF A/B; AIR TO SURFACE; 31NAA661000; 060828ZJAN99; MANCON 3; BCAS12;

CE PRODUCT WEST RD; No damage assessed.

CE_PRODUCT NORTH RD; No damage assessed. PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060828ZJAN99;MANCON_4;AIR TRACK BU (PCAS7) DETECTED AT 32SPG853065; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060828ZJAN99;MANCON_4;AIR TRACK BV (BOGEY7)
DETECTED AT 32SPF743765; TRACK IS HOSTILE
PRINTED BY: mds007

;AIR MSN ILLUMINATED;BOGEY7;32SPF743765;060828ZJAN99;AGCON_1;AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR PRINTED BY: mds007

;VISUAL DETECT STATUS;FROG5;32SPF524723;060828ZJAN99;AGCON_1;DETECTION AT 32SPF862545 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=VMV_PURPLE MV-22 24; TROOPS 207; PRINTED BY: mds007

;VISUAL DETECT STATUS;FROG5;32SPF524723;060828ZJAN99;AGCON_1;DETECTION AT 32SPF877574 HAS BEEN TEMPORARILY LOST, TRACK 3

, ID=INF_H/P TROOPS 181; PRINTED BY: mds007

;VISUAL DETECT STATUS;FROG5;32SPF524723;060828ZJAN99;AGCON_1;DETECTION AT 32SPF879563 HAS BEEN TEMPORARILY LOST, TRACK 5

, ID=AAAV/P AAAV 1; PRINTED BY: mds007

; VISUAL DETECT STATUS; VMV_PURPLE; 32SPF844929; 060828ZJAN99; MANCON_4; DETECTION AT 32SPG506106 HAS BEEN TEMPORARILY LOST, TRACK 7

, ID=FROG5 FROG-7-SSM 1; TROOPS 4; PRINTED BY: mds007 ; VISUAL DETECT STATUS; INF H/P; 32SPF843933; 060828ZJAN99; MANCON 4; DETECTION AT 32SPG490080 HAS BEEN TEMPORARILY LOST, TRACK 7 ID=FROG5 FROG-7-SSM 1; TROOPS 4; PRINTED BY: mds007 ; AIR MSN LAUNCH; PCAS8; 32SPG901122; 060828ZJAN99; MANCON 4, MANCON 1; AIR MISSION HAS LAUNCHED PRINTED BY: mds007 ;SHIP MOVE;SUB3;32SQF135976;060829ZJAN99;AGCON 1;UNABLE TO MOVE - SHIP DAMAGED PRINTED BY: mds007 ;AIR TRK DATA;LHA;32SPF962990;060829ZJAN99;MANCON 4;AIR TRACK BW (PCAS8) DETECTED AT 32SPG853062; TRACK IS FRIENDLY PRINTED BY: mds007 ; VISUAL DETECT STATUS; SILK1; 32SPF595807; 060829ZJAN99; AGCON 1; DETECTION AT 32SPF568765 HAS BEEN LOST, TRACK 3 ID=INF A/P PRINTED BY: mds007 ; VISUAL DETECT STATUS; INF A/P; 32SPF775953; 060829ZJAN99; MANCON 4; DETECTION AT 32SPF803995 HAS BEEN LOST, TRACK 5 , ID=SILK1 D-20 2; PRINTED BY: mds007 ; VISUAL DETECT STATUS; FROG4; 32SPF523741; 060829ZJAN99; AGCON 1; DETECTION AT 32SPF563753 HAS BEEN LOST, TRACK 2 ID=VMV PURPLE PRINTED BY: mds007 ; VISUAL DETECT STATUS; SILK5; 32SPF602861; 060829ZJAN99; AGCON 1; DETECTION AT 32SPG785070 HAS BEEN TEMPORARILY LOST, TRACK 3 ID=SMC TROOPS 257; PRINTED BY: mds007 ; VISUAL DETECT STATUS; INF A/P; 32SPF775953; 060829ZJAN99; MANCON 4; DETECTION AT 32SPG807147 HAS BEEN TEMPORARILY LOST, TRACK 9 ID=TANK2 HMMWV-TOW 8; M1A1 14; PRINTED BY: mds007 ; VISUAL DETECT STATUS; TANK2; 32SPF587889; 060829ZJAN99; AGCON 1; DETECTION AT 32SPF556694 HAS BEEN TEMPORARILY LOST, TRACK 2 ID=INF A/P TROOPS 182; PRINTED BY: mds007

;AIR MSN LAUNCH;BOGEY8;32SPF602645;060829ZJAN99;AGCON 1;AIR MISSION HAS

LAUNCHED

PRINTED BY: mds007

;AIR RTE POINT;QA142;32SPF625617;060829ZJAN99;AGCON_1;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;QA142;32SPF625617;060829ZJAN99;AGCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;AIR RTE POINT;BCAS12;32SPG901122;060829ZJAN99;MANCON_3;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;BCAS12;32SPG901122;060829ZJAN99;MANCON_3;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;AIR RTE POINT;GCAP1;32SPG663123;060829ZJAN99;MANCON_2;AIR MISSION HAS REACHED AIR TO AIR LAUNCH POINT PRINTED BY: mds007

; ASSESSMENT REPORT; VF GREEN; AIR TO AIR; 32SPF885850; 060829ZJAN99; MANCON 2; GCAP1;

AIR MSN BOGEY7; SU-24-FENCER 1 K_KILLED, PRINTED BY: mds007

;ASSESSMENT REPORT;BOGEY7;AIR_TO_AIR;32SPF885850;060829ZJAN99;AGCON_1;GCAP1;

UNIT AGAIR1; SU-24-FENCER 1 K_KILLED, PRINTED BY: mds007

;AIR MSN LAUNCH;BCAS13;32SPG901122;060830ZJAN99;MANCON_3;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; SILK4; 32SPG824041; 060830ZJAN99; AGCON_1; IS ENGAGED BY ENG

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; SILK4; 32SPG824041; 060830ZJAN99; AGCON_1; IS ENGAGED BY INF_H/B

PRINTED BY: mds007

;UNIT CASUALTY LIMIT ;SILK4;32SPG824041;060830ZJAN99;AGCON_1;HAS REACHED EFFECTIVE CASUALTY LIMIT PRINTED BY: mds007

;UNIT DESTRUCTION;SILK4;32SPG824041;060830ZJAN99;AGCON_1;UNIT IS NO LONGER COMBAT EFFECTIVE PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;SILK4;32SPG824041;060830ZJAN99;AGCON_1;IS DESTROYED, TERMINATING ENGAGEMENT WITH ENG PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; ENG; 32SPG812046; 060830ZJAN99; MANCON_1; HAS TERMINATED ENGAGEMENT WITH SILK4, UNIT DESTROYED. PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; SILK4; 32SPG824041; 060830ZJAN99; AGCON_1; IS DESTROYED, TERMINATING ENGAGEMENT WITH INF_H/B

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; INF_H/B; 32SPG819048; 060830ZJAN99; MANCON_3; HAS TERMINATED ENGAGEMENT WITH SILK4, UNIT DESTROYED.

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;REPORT; GROUND_ENGAGEMENT
7;32SPG819048;060830ZJAN99;AGCON_1,MANCON_1,MANCON_3;

Initial engagement times:

SILK4; 060828ZJAN99

ENG; 060828ZJAN99

INF H/B; 060828ZJAN99

Cumulative losses:

UNIT SILK4; TROOPS 8 WIA, UNIT AGSUP; No damage assessed.

Incremental losses (increases since the last report)

UNIT SILK4; TROOPS 8 WIA,

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; ENGAGEMENT STATUS CHANGE; TANK2; 32SPF587889; 060830ZJAN99; AGCON_1; IS ENGAGED BY

INF A/P

PRINTED BY: mds007

; REPORT; GROUND ENGAGEMENT 7;32SPG819048;060830ZJAN99; AGCON 1, MANCON 3;

Initial engagement times:

SILK4; 060828ZJAN99

INF H/B; 060828ZJAN99

Cumulative losses:

CE PRODUCT NORTH RD; No damage assessed.

TROOPS 8 WIA,

No changes in CDA since last report.

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;OBJECT DETECT;VMV_PURPLE;32SPF773974;060830ZJAN99;MANCON_4;HAVE DETECTED BRIDGE [% 0 DAMAGED] AT 32SPF738992;

PRINTED BY: mds007

;OBJECT DETECT;VMV_PURPLE;32SPF773974;060830ZJAN99;MANCON_4;HAVE DETECTED RIVER AT 32SPF742979;

PRINTED BY: mds007

;AIR MSN LAUNCH;BCAS14;32SPG901122;060830ZJAN99;MANCON_3;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH;BCAS15;32SPG901122;060830ZJAN99;MANCON_3;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR RTE POINT;DL403;32SPF625617;060830ZJAN99;AGCON_1;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;DL403;32SPF625617;060830ZJAN99;AGCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;AIR RTE POINT;GCAP1;32SPG663123;060830ZJAN99;MANCON_2;AIR MISSION HAS REACHED AIR TO AIR LAUNCH POINT PRINTED BY: mds007

;AD ENGAGE NOTIFY;BOGEY7;32SPF951907;060830ZJAN99;AGCON_1;

BOGEY7 HAS BEEN FIRED ON BY AAM - NO HITS PRINTED BY: mds007

; ASSESSMENT REPORT; VF_GREEN; AIR_TO_AIR; 32SPG887019; 060830ZJAN99; MANCON_2;

NO ASSESSMENT; Msn# GCAP1

PRINTED BY: mds007

;AIR MSN LAUNCH;BA564;32SPF625617;060830ZJAN99;AGCON_1;AIR MISSION HAS LAUNCHED PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060830ZJAN99;MANCON_4;AIR TRACK BX (BA564) DETECTED AT 32SPF658621; TRACK IS SUSPECT PRINTED BY: mds007

;AIR MSN ILLUMINATED;BA564;32SPF658621;060830ZJAN99;AGCON_1;AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060830ZJAN99;MANCON_4;AIR TRACK BY (BCAS15)
DETECTED AT 32SPG898048; TRACK IS FRIENDLY
PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060830ZJAN99;MANCON_4;AIR TRACK BZ (BCAS14)
DETECTED AT 32SPG898048; TRACK IS FRIENDLY
PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060830ZJAN99;MANCON_4;AIR TRACK CA (BCAS13) DETECTED AT 32SPG868066; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR RTE POINT;PCAS7;32SPF587889;060830ZJAN99;MANCON_4,MANCON_1;AIR MISSION HAS REACHED ATTACK POINT PRINTED BY: mds007

;STATUS CHANGE;TANK2;32SPF587889;060830ZJAN99;AGCON_1; RECEIVING AIR-TO-SURFACE FIRE PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_PURPLE; AIR_TO_SURFACE; 32SPF587889; 060830ZJAN99; MANCON_4; PCAS7;

UNIT TANK2; TROOPS 22 WIA, 8 KIA

UNIT TANK2; HMMWV-TOW 3 K_KILLED, 2 M_KILLED,

PRINTED BY: mds007

; ASSESSMENT REPORT; SOF; AIR_TO_SURFACE; 32SPF587889; 060830ZJAN99; MANCON_1; PCAS7;

UNIT TANK2; TROOPS 22 WIA, 8 KIA

UNIT TANK2; HMMWV-TOW 3 K KILLED, 2 M KILLED,

PRINTED BY: mds007

; ASSESSMENT

REPORT; TANK2; AIR_TO_SURFACE; 32SPF587889; 060830ZJAN99; AGCON 1; PCAS7;

UNIT TANK2; TROOPS 22 WIA, 8 KIA

UNIT TANK2; HMMWV-TOW 3 K KILLED, 2 M KILLED,

PRINTED BY: mds007

;AIR RTE POINT;BCAS14;32SPG897031;060830ZJAN99;MANCON_3;AIR MISSION HAS

REACHED ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT;BCAS15;32SPG897031;060830ZJAN99;MANCON_3;AIR MISSION HAS

REACHED ORBIT POINT

PRINTED BY: mds007

; FIRE MSN WARNING; DDG; 32SPF959851; 060830ZJAN99; MANCON_2; FIRE MISSION DDG UNIT IS NOT WITHIN AN ACTIVE FIRE SUPPORT AREA.

PRINTED BY: mds007

;FIRE MSN WARNING;DDG;32SPF959851;060830ZJAN99;MANCON_2;FIRE MISSION DDG UNIT

IS NOT WITHIN AN ACTIVE FIRE SUPPORT AREA.

PRINTED BY: mds007

;FIRE MSN PREP;DDG;32SPF959851;060830ZJAN99;MANCON_2;FIRE MISSION DDG IN

PREPARATION TO FIRE

PRINTED BY: mds007

2. Command History file from 2-23-99_J41J43_V1

The following is an example of an Excel spreadsheet showing a four-node run Command History. The pages run in the over then down format, in other words the line 1 is shown in its entirety then it jumps down to the next section. All lines and columns are numbered and lettered on each page of the spreadsheet. The Command History contains all commands given from the beginning of the construction of the scenario and assets through to the end of the actual scenario.

START STAR	MOS 18 MOS 18 MAD MANDOI TRUCTURE RD DD H BCH NATURAL_TERRAIN NATURAL_TERRAIN NATURAL_TERRAIN STRUCTURE CONTRETE-STRUCT CONTRETE-STRUCT RIVER RIVER MOUNTAIN MOUNTAIN PORT-FACILITY	MandOI	CSS ROAD ROAD ROAD ROAD ROAD ROAD ROAD ROAD ROAD RICHE BRIDGE BRID	Man	
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CE CONSTRUCT	MATURAL_TERRAIN STRUCTURE MATURAL_TERRAIN INTURAL_TERRAIN STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE		IMPROVED SURFACE RIVER IMPROVED SURFACE IMPROVED SURFACE SEPCESSURE MOUNTAIN MOUNTAIN ASSPECEMBLE ASSPECEMBLE ASSPECEMBLE ASSPECEMBLE ASSPECEMBLE OBSTACLE		GRAVEL (GRAVEL (CONCRETE-BRIDGE, CONCRETE-BRIDGE, CONCRETE-BRIDGE, 328P5833031 328P5840061 328P5840061 AG AG AG AG AG
CE CONSTRUCT	NATURAL, TERRAIN STRUCTURE NATURAL, TERRAIN NATURAL, TERRAIN STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE		IMPROVED_SURFACE IMPROVED_SURFACE 328PG21062 328PG21063 328PG230035 328PG23005 328PG2005 3		(10328PG737025 CONCRETE-BRIDGE, CONCRETE-BRIDGE, 2328P537031 325PG940061 325PG940061 AG AG AG
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3. Parsed Data File 1 from 2-23-99_J41J43_V1

The following is the first of the parsed data files produced from an example four-node run. This parsed data file includes only data from the beginning of the run sequence of the scenario. The data was always parsed twice to ensure that no data was lost or left out.

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	ed Data (9 J41J43 V					
ота	ain	UTM	CTLR	REPORT		TRACK	OID2	JTM2
060800ZJAN99	-0S	32SPG728000	MANCON 1	OBJECT DETECT	HAVE DETECTED STRUCTURE	1		32SPG727000
060600ZJAN99	SOF	32SPG728000		OBJECT DETECT	HAVE DETECTED BRIDGE			32SPF738992
060800ZJAN99		32SPG728000	MANCON_1	OBJECT DETECT	HAVE DETECTED RIVER			32SPF738996
060801ZJAN99		32SQG099006		AIR RTE POINT	CRUISE MISSILE HAS REACHED ATTACK POINT			
060801ZJAN99	FFG	325GG099007	- 1	ASSESSMENT REPORT	AIR TO SURFACE MISH# H1	†		
DECISION TANDO	SOFTCASI ECASI	325PG901122	MANCON 1	AID MON LAUNCH	AIR MISSION HAS LAUNCHED	1		
060601ZJAN99	GCAP1	32SPG901122	MANCON 2	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
060801ZJAN99	AA88	32SPF625617	AGCON_1	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
060801ZJAN99	ГНА	32SPF982990	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED	٧	AA88	32SPF658621
060801ZJAN99	Т	32SPF658621	AGCON 1	AIR MSN ILLUMINATED	AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR			
060801ZJAN99	Т	32SPF962990	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED K			32SPG884122
080801ZJAN99	Т	32SPF962990	MANCON 4	AIR TRK DATA				32SPG934140
DOUT LANDS	LINA COARDS	325Pr802880	MANCON 4	AIR IRR DATA	AIR INSCRIBECTED		SOFFCASI	32SPG968180
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0608072.IAN99	BCAS1	32SPG901122	MANCON 3	AR MSN I ALINCH	AIR MISSION HAS LAUNCHED	†		
060802ZJAN99	SOFFCAS1	32SQG025193	MANCON 1	AIR RTE POINT	AIR MISSION HAS REACHED ORBIT POINT			
080802ZJAN99	BCAS2	32SPG901122	MANCON_3	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
060802ZJAN99	LHA	32SPF962990	MANCON_4	AIR TRK DATA	AIR TRACK DETECTED		BCAS2	32SPG914087
080802ZJAN99	LHA	32SPF962990	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED 0			32SPG914087
080802ZJAN99	. 1	32SPF962990	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED			32SPG935138
060802ZJAN99		32SPF982990	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED		GCAP2	32SPG827123
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0608027.JAN99	1881	32SPG682134	AGCON 1	SHIP MOVE	HAVE COMMENCED MOVEMENT	1		
060802ZJAN99	1	32SPG901122	MANCON_3	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
060802ZJAN99		32SPG801122	MANCON_3	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
060802ZJAN99	PCAS2	32SPG901122	MANCON_4,MANCON_1	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
060802ZJAN99	FCAS3	32SPG901122	MANCON_1	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED	-	0.000	
060802ZJAN99	FCAS1	32SQG025183	MANCON_1	AIR RTE POINT	AIR MISSION HAS REACHED ORBIT POINT			
060502ZJAN99	BCAS6	32SPG901122	⊷l.	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
0605022JAN99	PCAS3	32SPG901122	MANCON 4, MANCON 1	AID MEN LAUNCH	AIR MISSION HAS LAUNCHED			
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060602ZJAN99	FCASS	32SPG901122	MANCON 1	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
060802ZJAN99		32SPG901122	MANCON 2	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
060802ZJAN99	1 1	32SPG901122	MANCON_4,MANCON_1	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
060802ZJAN99		32SPF962990	MANCON_4	AIR TRK DATA			PCASA	32SPG887088
080802ZJAN99	П	32SPF962990	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED		GCAP4	32SPG864122
060802ZJAN99	1	32SPF962890	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED			32SPG935138
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OROBOZZJANSS		325PF962690	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED			32SPG884122
080802ZJAN99	LHA	32SPF962990	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED		CASS	325FG078052
060802ZJAN99		32SPF962890	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED Y		FCAS3	32SPG988154
060802ZJAN99		32SPF962990	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED Z		PCAS2	32SPG872054
060802ZJAN99	LHA	32SPF962990	MANCON 4	AIR TRK DATA		П	BCASS	32SPG926052
060802ZJAN99	П	32SPF962990	MANCON 4	AIR TRK DATA			BCAS4	32SPG928052
080802ZJAN99	П	32SPF062990	MANCON 4	AIR TRK DATA			PCAS1	32SPG871051
060802ZJAN99	LAN.	325PF962890	MANCON 4	AIR IRK DATA	AIR TRACK DETECTED	T	BCAS3	32SPG927048
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080803ZJAN99	BCAS1	32SPG817049	-	AIR RTE POINT	AIR MISSION HAS REACHED ATTACK POINT			
060803ZJAN99		31NAA661000	MANCON_3	ASSESSMENT REPORT	AIR TO SURFACE BCAS1		VORTH RD	
060803ZJAN99	ΙI	31NAA861000	MANCON_3	ASSESSMENT REPORT	AIR_TO_SURFACE BCAS1	-	NORTH RD	
060803ZJAN99		32SPG680125	MANCON_2	AIR RTE POINT	AIR MISSION HAS REACHED ORBIT POINT			
060803ZJAN99	T	32SPG883123	MANCON 2	AIR RTE POINT				
060803ZJAN99	- [32SPF962990	MANCON 4	AIR TRK DATA			. !	32SPG672054
0608032JAN99	1	325PF962990	MANCON 4	AIR TRK DATA	AIR IRACK DETECTED		GCAPS	32SPG827123
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	*	32SQF111983	2	AIR RTE POINT	CRUISE MISSILE HAS REACHED ATTACK POINT			
		32SQF111983	2	ASSESSMENT REPORT	AIR_TO_SURFACE Man# ASW4			
		32SPF725863	3	UNIT MOVE.	COMMENCING MOVEMENT			
		32SPF728830		VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	Z	_	32SPF726658
	INF_A/B	32SPF /26562		VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED SUPPLY UNIT	<u>۸</u>	AGSUP 3	SPF728833
570 060815ZJAN99		32SPF /26868		UNIT MOVE		1		
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575 DROB187.14NOG	INF A/B	32SPF728862	,,,	FNGAGEMENT STATIS CHANGE	HAS INITIATED ENGAGEMENT	4	9000	
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	BCAS9	32SPF750829	3	AIR RTE POINT	AIR MISSION HAS REACHED ATTACK POINT			
	SILKS	32SPF750831		STATUS CHANGE	RECEIVING AIR-TO-SURFACE FIRE			ľ
	VF_BLUE	32SPF750831	MANCON_3	ASSESSMENT REPORT	AIR_TO_SURFACE BCAS9	Ø	SILKS	
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583 060816ZJAN99	ASWS	32SQF098985	2	AIR MSN LAUNCH	CRUISE MISSILE HAS LAUNCHED			
584 060816ZJAN99	GCAP1	32SPG663123	2	AIR RTE POINT	AIR MISSION HAS REACHED AIR TO AIR LAUNCH POINT			
	VF_GREEN	32SPF753896	.2	ASSESSMENT REPORT	AIR_TO_AIR GCAP1	ě	BOGEY3	
_	BOGEY3	32SPF753896		ASSESSMENT REPORT	AIR_TO_AIR GCAP1			
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588 060518ZJAN99	SILKS	32SPr6108/5		VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	2	INF_A/B	32SPF538968
589 060816ZJAN99	ENG.	32SPF / 28866	-	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	2	ŀ	2SPF790765
590 U608162JAN98	INF_MB	323FF (20002	MANCON 3	VISUAL DETECT STATUS	ALD MISSION HAS BEEN LEMPORARILY LOST	200	SILKS	32SPF787771
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600 060817ZJAN99	Водетз	32SPF795913		AIR MSN CANX	AIR MISSION CANCELED DUE TO LOSS OF AIRCRAFT			
601 060817ZJAN99	BOGEY3	32SPF795913		AIRCRAFT STAT				
602 060817ZJAN99	LHA	32SPF962990	*	AIR TRK DATA	AIR TRACK DETECTED	0 28	QA142	32SPF656674
603 060817ZJAN99	QA142	32SPF658674		AIR MSN ILLUMINATED	AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR			
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900 00081/2JAN99	9006	325000000000000000000000000000000000000	AGCON 3	AID MOVE	UNABLE TO MOVE - SHIP DAMAGED			
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609 060817ZJAN99	SILK2	32SPF666877	AGCON 1	STATUS CHANGE	RECEIVING AIR-TO-SURFACE FIRE			
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812 060817ZJAN99	ГНА	32SPF962990	,	AIR TRK DATA	AIR TRACK DETECTED			32SPG926052
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618 060818ZJAN99	FROG4	32SPF805917		VISUAL DETECT	HAVE DETECTED COMPANY SIZED INFANTRY UNIT			32SPF807934
619 060818ZJAN99	VMV_PURPLE	32SPF844929	•	VISUAL DETECT	HAVE DETECTED SECTION SIZED ARTILLERY UNIT	9		2SPF808917
820 060818ZJAN99	SOF	32SPF722894	MANCON 1	VISUAL DETECT	HAVE DETECTED COMPANY SIZED LIGHT ARMOR UNIT		LDVEH1 3	32SPG729013
621 060818ZJAN99	SOF	32SPF722994		VISUAL DETECT	HAVE DETECTED COMPANY SIZED LIGHT ARMOR UNIT	- -		2SPG729013

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22	060818ZJAN99	SOF	32SPF722994		VISUAL DETECT	HAVE DETECTED COMPANY SIZED LIGHT ARMOR UNIT	LDVEHI	32SPG729013	29013
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1	060818ZJAN99	INF AP	1	MANCON_4	VISUAL DETECT	HAVE DETECTED SECTION SIZED ARTILLERY UNIT	6 FROG4	32SPF806918	91690
	060818ZJAN99	FROG2	32SPF522782	AGCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	5 INF HVB	32SPF515732	15732
न	060818ZJAN99	FR0G2	32SPF522782	AGCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	8 INF_A/B	32SPF490748	90748
837	060818ZJAN99	INF HO	325PF /26667	MANCON 3	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	3 FROG2	32SPF734917	34917
33	080818ZJAN99	INF A/B	32SPF726862			DETECTION HAS BEEN LOST	S FROG2	32SPF758897	58897
8	360818ZJAN99	INF_A/B	J.,	MANCON 3		DETECTION HAS BEEN LOST	3 FROG2	32SPF758897	58897
635	060818ZJAN99	BCAS11		MANCON_3		AIR MISSION HAS REACHED ORBIT POINT			
_	060818ZJAN99	BCAS12		MANCON 3		AIR MISSION HAS REACHED ORBIT POINT			
637	060818ZJAN99	BCASS	32SPG901122	MANCON 3	AIR RIE POINI	AIR MISSION HAS REACHED FINAL LAND POINT		1	T
	060818ZJAN99	GCAP1	32SPG663123	MANCON 2	AIR RTE POINT	AIR MISSION HAS REACHED ORBIT POINT			T
	060818ZJAN99	FCAS7	32SPF828878	MANCON 1	AIR RTE POINT	AIR MISSION HAS REACHED ATTACK POINT			
2	060818ZJAN99	FR0G3	32SPF829878	AGCON_1	STATUS CHANGE	RECEIVING AIR-TO-SURFACE FIRE			
22	060818ZJAN99	VF_FLAG	32SPF829878	-]-	ASSESSMENT REPORT	AIR TO SURFACE Man# FCAS7			
3	0608182JAN99	TANKI	32SPF629876	MANCON 1	VISITAL DETECT STATUS	AIK TO SURFACE MAN FCAS?	0.143	00010170000	00070
200	060816ZJAN99	TANKI	32SPF522895		VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	FNG	32SPF78488	8488
	080818ZJAN99	TANK1	32SPF522895	_	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	2 ENG	32SPF784868	8488
67	060818ZJAN99	TANKI	32SPF522895	AGCON_1	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	2 ENG	32SPF784888	84888
	080818ZJAN99	TANK1	32SPF522895	AGCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	2 ENG	32SPF784868	84868
8	060818ZJAN99	ENG	32SPF726866	MANCON	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	2 TANK1	32SPF466893	66893
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8	3608187.IAN99	FROGS	32SPF522782		VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	S CNE	325PF4/4/45	74745
653	060818ZJAN99	FROG2	32SPF522762	AGCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	ENS C	32SPF474745	74745
654	060816ZJAN99	FROG2	32SPF522782		VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	3 ENG	32SPF474745	74745
922	060816ZJAN99	FROG2	32SPF522782	AGCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	3 ENG	32SPF474745	74745
928	060818ZJAN99	FROG2	32SPF522782	AGCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	3 ENG	32SPF474745	74745
-	060818Z.IAN99	FNG	32SPF72886			DETECTION HAS BEEN LOST	1 FROGS	325PF///804	77904
629	080818ZJAN99	TANK1	32SPF522895	-	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	3 INF HB		54785
98 88	060818ZJAN99	TANKI	32SPF522895			DETECTION HAS BEEN LOST	4 INF_AB		80788
	060818ZJAN99	INF HG	32SPF726867	60		DETECTION HAS BEEN LOST	TANK	32SPF49497	94977
8 8	0606182JAN99	INE HO	32SPF728867	MANCON 3	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	TANKI	325FF48497	1/649/
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6	060818ZJAN99	INF_A/B	32SPF726862	MANCON_3	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	4 TANK1	32SPF48797	87971
289	060819ZJAN99	LDWEH1	32SPG729015	AGCON 1	UNIT MOVE	COMMENCING MOVEMENT	1000		
88	0606192JAN99	BOGEY4	32SPF912858	AGCON 1	ASSESSMENT REPORT	SURFACE TO AIR CO	AGAIR1		T
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872	060819ZJAN99	EDOS.	32SPF807935	MANCON 4	ENGAGEMENT STATUS CHANGE	HAS INITIATED ENGAGEMENT	FROG4		
2/2	060819ZJAN99	BCAS10	32SPG901122	MANCON 3	AIR RTE POINT	AIR MISSION HAS REACHED FINAL LAND POINT			
675	060819ZJAN99	BCAS10	32SPG901122	MANCON_3	AIRCRAFT STAT				
878	060819ZJAN99	BOGEY4	32SPF912858	AGCON 1	AIR MSN CANX	AIR MISSION CANCELED DUE TO LOSS OF AIRCRAFT			
10	060619ZJAN99	LDVEH1	32SPG736006	AGCON 1	UNIT DESTINATION	HAVE REACHED ASSIGNED DESTINATION			
-	060819ZJAN99	LHA	32SPF962990	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED	BH BOGEY2	32SPG855224	855224
	060819ZJAN99	80GEY2	32SPG855224	AGCON 1	AIR MSN ILLUMINATED	AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR	94 1111	10010010000	10000
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	060819ZJAN99	FR0G4	32SPF605916	AGCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST			45929
	060819ZJAN99	HELO1	32SPF602645	AGCON, 1	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
888	080820ZJAN99	FROG4	32SPF805818	MANCON 2	ONIT DEFENSIVE MISSION AIR RTF POINT	HAS ASSUMED DEFENSIVE MISSION ARRANSION HAS BEACHED AIR TO AIR (ALINCH POINT		1	T
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CORDEZIZANNO GAGNE 32SPF728829 AGCON_1 VIRUAL DETECT STATUS CORDEZIZANNO AGAR 32SPF728829 AGCON_1 VISUAL DETECT STATUS CORDEZIZANNO AGAR 32SPF728829 AGCON_1 VISUAL DETECT STATUS CORDEZIZANNO AGAR 32SPF728829 AGCON_1 VISUAL DETECT STATUS CORDEZIZANNO AGAR 32SPF728829 AGCON_1 VISUAL DETECT STATUS CORDEZIZANNO AGAR 32SPF728829 AGCON_1 VISUAL DETECT STATUS CORDEZIZANNO AGAR 32SPF728829 AGCON_1 VISUAL DETECT STATUS CORDEZIZANNO AGAR 32SPF728829 AGCON_1 VISUAL DETECT STATUS CORDEZIZANNO AGAR 32SPF0001121 AAGON_2 VISUAL DETECT STATUS CORDEZIZANNO MEDIB 32SPG001121 AAGON_2 VISUAL DETECT STATUS CORDEZIZANNO GCAPB 32SPG001121 AAGON_2 AGCON_3 VISUAL DETECT STATUS CORDEZIZANNO GROUND_ENGAGEMENT 32SPG001121 AGCON_4 AMANCON_3 REPORT CORDIZIZANNO	081 060827ZJAN99		32SPF /28829	AGCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST		MED/B	325QF068549
060027IZANN99 AGARR 325FF728029 AGCON_1 VISUAL DETECT STATUS 060027IZANN99 AGARR 325FF728029 AGCON_1 VISUAL DETECT STATUS 060027IZANN9 AGARR 325FF728029 AGCON_1 VISUAL DETECT STATUS 060027IZANN9 AGARR 325FF728029 AGCON_1 VISUAL DETECT STATUS 060027IZANN9 AGARR 325FF728029 AGCON_1 VISUAL DETECT STATUS 060027IZANN9 AGARR 325FF728029 AGCON_1 VISUAL DETECT STATUS 060027IZANN9 MEDIB 325FF728029 AGCON_1 VISUAL DETECT STATUS 060027IZANN9 MEDIB 325F0901121 MANCON_2 VISUAL DETECT STATUS 060027IZANN9 MEDIB 325F0901121 MANCON_3 VISUAL DETECT STATUS 06002ZIZANN9 GROUND_ENGAGEMENT 5 325F0901121 MANCON_3 REPORT 06002ZIZANN9 GROUND_ENGAGEMENT 5 325F0901121 AGCON_1, IAMNCON_3 REPORT 06002ZIZANN9 GROUND_ENGAGEMENT 5 325F0901121 AGCON_1, IAMNCON_3 REPORT 06002ZIZANN9 <t< td=""><td></td><td></td><td>32SPF728829</td><td>AGCON 1</td><td>VISUAL DETECT STATUS</td><td>DETECTION HAS BEEN TEMPORARILY LOST</td><td>0 10</td><td></td><td>32SOF068849</td></t<>			32SPF728829	AGCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	0 10		32SOF068849
ФОВОБЕТДАНИЯ AGANR 328PF728829 AGCON I VISUAL DETECT STATUS ФОВОБЕТДАНИЯ AGANR 328PF728829 AGCON_I VISUAL DETECT STATUS ФОВОБЕТДАНИЯ AGANR 328PF728829 AGCON_I VISUAL DETECT STATUS ФОВОБЕТДАНИЯ AGANR 328PF728829 AGCON_I VISUAL DETECT STATUS ФОВОБЕТДАНИЯ AGANR 328PF728829 AGCON_I VISUAL DETECT STATUS ФОВОБЕТДАНИЯ AGANR 328PF728829 AGCON_I VISUAL DETECT STATUS ФОВОБЕТДАНИЯ AGANR 328PF728829 AGCON_I VISUAL DETECT STATUS ФОВОБЕТДАНИЯ MEDIB 328PF061121 MANCON_I VISUAL DETECT STATUS ФОВОБЕТДАНИЯ GCANR 328PF061121 AGCON_I.AMNCON_I VISUAL DETECT STATUS ФОВОБЕТДАНИЯ GCANLID_ENGAGEMENT 328PG901121 AGCON_I.AMNCON_I REPORT ФОВОБЕТДАНИЯ GROUND_ENGAGEMENT 328PG901121 AGCON_I.AMNCON_I REPORT ФОВОБЕТДАНИЯ GROUND_ENGAGEMENT 328PG901121 AGCON_I.AMNCON_I REPORT ФОВОБЕТДАНИЯ			32SPF728829	AGCON_1	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	50		32SQF065849
GOGOSZIZANNOB AGARR 32SPF728829 AGCON_1 VISUAL DETECT STATUS GOGOSZIZANNOB AGARR 32SPF728829 AGCON_1 VISUAL DETECT STATUS GOGOSZIZANNOB AGARR 32SPF728829 AGCON_1 VISUAL DETECT STATUS GOGOSZIZANNOB AGARR 32SPF728829 AGCON_1 VISUAL DETECT STATUS GOGOSZIZANNOB MEDIB 32SPF728829 AGCON_1 VISUAL DETECT STATUS GOGOSZIZANNOB MEDIB 32SPG001121 MANICON_3 VISUAL DETECT STATUS GOGOSZIZANNOB GGAPB 32SPG001121 MANICON_3 VISUAL DETECT STATUS GOGOSZIZANNOB GGAPB 32SPG001121 AGCON_1, MANICON_3 REPORT GOGOSZIZANNOB GROUND_ENGAGEMENT 32SPG001121 AGCON_1, MANICON_3 REPORT GOGOSZIZANNOB GROUND_ENGAGEMENT 32SPG001121 AGCON_1, MANICON_3 REPORT GOGOSZIZANNOB GROUND_ENGAGEMENT 32SPG001121 AGCON_1, MANICON_3 REPORT GOGOSZIZANNOB GROUND_ENGAGEMENT 32SPG001121 AGCON_1, MANICON_3 REPORT GOGOSZ			32SPF728829	AGCON, 1	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	5		32SQF068849
GOBOSTZIANNO AGAIR 328F778829 AGCON_1 VISUAL DELECT STATUS GOBOSTZIANNO AGAIR 328F778829 AGCON_1 VISUAL DETECT STATUS GOBOSTZIANNO AGAIR 328F778829 AGCON_1 VISUAL DETECT STATUS GOBOSTZIANNO AGAIR 328F778829 AGCON_1 VISUAL DETECT STATUS GOBOSTZIANNO AGAIR 328F0901121 AMNCON_3 VISUAL DETECT STATUS GOBOSZZIANNO AGCAPA 328F0901121 AGCON_1 IMMCON_3 VISUAL DETECT STATUS GOBOSZZIANNO GROUND_ENGAGEMENT 328F0901121 AGCON_1 IMMCON_3 REPORT GOBOSZZIANNO GROUND_ENGAGEMENT 328F0901121 AGCON_1 IMMCON_3 REPORT GOBOSZZIANNO GROUND_ENGAGEMENT 328F0901121 AGCON_1 IMMCON_3 REPORT GOBOSZZIANNO GROUND_ENGAGEMENT 328F0901121 AGCON_1 IMMCON_3 REPORT GOBOSZZIANNO GROUND_ENGAGEMENT 328F0901121 AGCON_1 IMMCON_3 REPORT GOBOSZZIANNO GROUND_ENGAGEMENT 328F0901121 AGCON_1 IMMCON_3 REPORT GOBOSZ			32SPF728629	AGCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	9		32SQF068849
CROSSZZANNY CAGAIR 2359F728829 AGCON_1 VISUAL DETECT STATUS CROSSZZANNY AGAIR 2359F728829 AGCON_1 VISUAL DETECT STATUS CROSSZZANNY MEDIB 2359G901121 MANCON_3 VISUAL DETECT STATUS CROSSZZANNY MEDIB 3259G901121 MANCON_3 VISUAL DETECT STATUS CROSSZZANNY MEDIB 3259G901121 MANCON_3 VISUAL DETECT STATUS CROSSZZANNY MEDIB 3259G901121 MANCON_3 VISUAL DETECT STATUS CROSSZZANNY GROUND_ENGGEMENT 3259G901121 AGCON_1, MANCON_3 REPORT CROSZZZANNY GROUND_ENGAGEMENT 3259G901121 AGCON_1, MANCON_3 REPORT CROSZZZANNY GROUND_ENGAGEMENT 3259G901121 AGCON_1, MANCON_3 REPORT CROSZZZANNY GROUND_ENGAGEMENT 3259G901121 AGCON_1, MANCON_3 REPORT CROSZZZANNY GROUND_ENGAGEMENT 3259G901121 AGCON_1, MANCON_3 REPORT CROSZZZANNY GROUND_ENGAGEMENT 3259G901121 AGCON_1, MANCON_3 REPORT CROSZZZANNY <td></td> <td></td> <td>325FF728828</td> <td>AGCON 1</td> <td>VISUAL DETECT STATUS</td> <td>DETECTION HAS BEEN TEMPORARILY LOST</td> <td>- I</td> <td>MED/8</td> <td>32SQF066849</td>			325FF728828	AGCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	- I	MED/8	32SQF066849
GG0527ZAN99 AGAR 325PG728359 AGCON I VISUAL DETECT STATUS G06027ZAN99 MED/B 325PG901121 MANICON, 3 VISUAL DETECT STATUS G0602ZZAN99 MED/B 325PG901121 MANICON, 3 VISUAL DETECT STATUS G0602ZZAN99 MED/B 325PG910101 MANICON, 3 VISUAL DETECT STATUS G0602ZZAN99 GCARDILIZANOS MANICON, 3 AIR RTE POINT G0602ZZAN99 GROUND_ENGAGEMENT 5 325PG901121 AGCON, I.MANICON, 3 REPORT G0602ZZAN99 GROUND_ENGAGEMENT 5 325PG901121 AGCON, I.MANICON, 3 REPORT G0602ZZAN99 GROUND_ENGAGEMENT 5 325PG901121 AGCON, I.MANICON, 3 REPORT G0602ZZAN99 GROUND_ENGAGEMENT 5 325PG901121 AGCON, I.MANICON, 3 REPORT G0602ZZAN99 GROUND_ENGAGEMENT 5 325PG901121 AGCON, I.MANICON, 3 REPORT G0602ZZAN99 GROUND_ENGAGEMENT 5 325PG901121 AGCON, I.MANICON, 3 REPORT G0602ZZAN99 GROUND_ENGAGEMENT 5 325PG901121 AGCON, I.MANICON, 3 REPORT	1089 060827ZJAN99		32SPF728829	AGCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	, 40		12SOF068849
ФОВОБЕДДАНИЯ MEDIB 3228FGB01121 MANICON, 3 VISUAL DETECT STATUS ФОВОБЕДДАНИЯ MEDIB 3228FGB01121 MANICON, 3 VISUAL DETECT STATUS ФОВОБЕДДАНИЯ GADER 3258FGB01121 MANICON, 3 AIRERTE POINT ФОВОБЕДДАНИЯ GADER 3258FGB01121 AGCOM, 1,MANICON, 3 REPORT ФОВОБЕДДАНИЯ GROUND_ENGAGEMENT 3258FGB01121 AGCOM, 1,MANICON, 3 REPORT ФОВОБЕДДАНИЯ GROUND_ENGAGEMENT 3258FGB01121 AGCOM, 1,MANICON, 3 REPORT ФОВОБЕДДАНИЯ GROUND_ENGAGEMENT 3258FGB01121 AGCOM, 1,MANICON, 3 REPORT ФОВОБЕДДАНИЯ GROUND_ENGAGEMENT 3258FGB01121 AGCOM, 1,MANICON, 3 REPORT ФОВОБЕДДАНИЯ GROUND_ENGAGEMENT 3258FGB01121 AGCOM, 1,MANICON, 3 REPORT ФОВОБЕДДАНИЯ GROUND_ENGAGEMENT 3258FGB01121 AGCOM, 1,MANICON, 3 REPORT ФОВОБЕДДАНИЯ GROUND_ENGAGEMENT 3258FGB01121 AGCOM, 1,MANICON, 3 REPORT ФОВОБЕДДАНИЯ GROUND_ENGAGEMENT 3258FGB01121 AGCOM, 1,MANICON, 3 REPORT	1090 060827ZJAN99		32SPF728829	AGCON_1	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	2		32SQF068849
GORGEZIZANDE MEDIB 328F06901121 MANCON_3 VISIUAL DETECT STATUS 060622ZANDE GCAPE 328F0678089 MANCON_2 AIR RTE POINT 060622ZANDE GCAPE 328F0678089 MANCON_2 AIR RTE POINT 06062ZZANDE GROUND_ENGAGEMENT 5 328F06901121 AGCON_1,MANCON_3 REPORT 06062ZZANDE GROUND_ENGAGEMENT 5 328F06901121 AGCON_1,MANCON_3 REPORT 06062ZZANDE GROUND_ENGAGEMENT 5 328F06901121 AGCON_1,MANCON_3 REPORT 06062ZZANDE GROUND_ENGAGEMENT 5 328F06901121 AGCON_1,MANCON_3 REPORT 06062ZZANDE GROUND_ENGAGEMENT 5 328F06901121 AGCON_1,MANCON_3 REPORT 06062ZZANDE GROUND_ENGAGEMENT 5 328F06901121 AGCON_1,MANCON_3 REPORT 06062ZZANDE GROUND_ENGAGEMENT 5 328F06901121 AGCON_1,MANCON_3 REPORT 06062ZZANDE GROUND_ENGAGEMENT 5 328F06901121 AGCON_1,MANCON_3 REPORT 06062ZZANDE GROUND_ENGAGEMENT 5 328F06901121 AGCON_1,MANCON_3 REPORT 06062ZZANDE GROUND_ENGAGEMENT 5 328F06901121 AGCON_1,MANCON_3 REPORT			32SPG801121	MANCON 3	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	2		32SPG582100
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060028ZJAN09 GROUND_ENGAGEMENT 5 328PG001121 AGCON 1,MANCON 3 REPORT 060028ZJAN09 GROUND_ENGAGEMENT 5 328PG001121 AGCON 1,MANCON 3 REPORT 060028ZJAN09 GROUND_ENGAGEMENT 5 328PG001121 AGCON 1,MANCON 3 REPORT 060028ZJAN09 GROUND_ENGAGEMENT 5 328PG001121 AGCON 1,MANCON 3 REPORT 060028ZJAN09 GROUND_ENGAGEMENT 5 328PG001121 AGCON 1,MANCON 3 REPORT 060028ZJAN09 GROUND_ENGAGEMENT 5 328PG001121 AGCON 1,MANCON 3 REPORT 060028ZJAN09 GROUND_ENGAGEMENT 5 328PG001121 AGCON 1,MANCON 3 REPORT 060028ZJAN09 GROUND_ENGAGEMENT 5 328PG001121 AGCON 1,MANCON 3 REPORT	060828ZJAN99	GROUND ENGAGEMENT 5	32SPG901121	AGCON_1,MANCON_3	REPORT	Initial engagement:		INF A/B	
GROUND ENGAGEMENT 5 328F0801121 AGCON 1, MANCON 3 REPORT	7 060828ZJAN99	GROUND_ENGAGEMENT 5	32SPG901121	AGCON_1, MANCON_3	REPORT	Inklai engagement:		AGSUP	
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OFFICIAL O	- 1	GROUND ENGAGEMENT 5	32SPG901121	AGCON 1,MANCON 3	REPORT	Cumulative losses:		AGAIR	
0600282JAN99 GROUND_ENGAGEMENT 5 32SPG001121 AGCON_IMANCON_3 REPORT 0600282JAN99 GROUND_ENGAGEMENT 5 32SPG001121 AGCON_IMANCON_3 REPORT 0600282JAN99 GROUND_ENGAGEMENT 5 32SPG001121 AGCON_IMANCON_3 REPORT	060828Z.JAN99	GROUND ENGAGEMENT 5	32SPG901121	AGCON 1 MANCON 3	REPORT	Cumulative fosses:		AGS11P	
0606282JAN99 GROUND_ENGAGEMENT 5 32SPG801121 AGCON_1,MANCON_3 REPORT 0608282JAN99 GROUND_ENGAGEMENT 5 32SPG801121 AGCON_1,MANCON_3 REPORT	060828ZJAN99	GROUND_ENGAGEMENT 5	32SPG901121	AGCON_1,MANCON_3	REPORT	Cumulative losses;		MED/B	
D608282JAN59 GROUND ENGAGEMENT 5 32SPG801121 AGCON 1,MANCON 3 REPORT	060828ZJAN99	GROUND ENGAGEMENT 5	32SPG901121	AGCON 1.MANCON 3	REPORT	Incremental losses:		INF A/B	
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	ndemental tosses;	Indendation to Section 1200 to	AS IERMINATED ENGAGEMENT, NO LOS	HAS TERMINATED ENGAGEMENT, NO LOS	4AS TERMINATED ENGAGEMENT, NO LOS	HAS TERMINATED ENGAGEMENT, NO LOS	VOT ENOUGH TROOPS FOR MOVEMENT	HAS ASSUMED WITHDRAW MISSION DUE TO CPR (0.00000<=0.17000)	TAS INITIATED ENGAGEMENT	LOWING REQUIREMENTS NOT ME!	TAG INCIDENCE CONTROL OF THE CONTROL	AS MILIATED ENGAGEMENT	AIR MISSION HAS LAUNCHED	CKUISE MISSILE HAS REACHED AT I ACK POINT	UNDER AIR A LIACK	AIR TO SURFACE ASW	AIK TO SURFACE ASW8	AIR MISSION HAS REACHED FINAL LAND POINT	THOUSE THE CALL OF	AND MISSION TAS REACHED ORBIT POINT	AIR MISSION TAS REACHED ORBIT POINT	AIR TO SUBFACE BCAS12	AND TO SUBERCE BOARDS	AID TO SUBERCE BOARTS	AIR TO SUBFACE BOASTS	AID TOACK DETECTED	AND TOACH DETECTED	AIR MISSION II I BANKATED BY NOW SAME SIDE BASAD	AN MISSION ILLUMINATED BY NON-SAME SIDE KADAR	DETECTION TAS BEEN TEMPORARILY LOST	DETECTION TAS BEEN TEMPORARILY LOST	DETECTION TAS BEEN TEMPORARILY LOST	DETECTION TAS BEEN TEMPORARILY LOST	DETECTION WAS BEEN TEMPORABLY LOST	DETECTION WAS BEEN TEMPORABLY LOST	DETECTION LAS BEEN TEMPORARIET LOST	AID MISSION HAS LATINCHED	UNABLE TO MOVE - SHIP DAMAGED	AIR TRACK DETECTED	DETECTION HAS BEEN LOST	DETECTION HAS BEEN LOST	DETECTION HAS BEEN LOST	DETECTION HAS BEEN TEMPORARILY LOST	DETECTION HAS BEEN TEMPORARILY LOST	DETECTION HAS BEEN TEMPORARILY LOST	DETECTION HAS BEEN TEMPORARILY LOST	AIR MISSION HAS LAUNCHED	AIR MISSION HAS REACHED FINAL LAND POINT	AIR MISSION HAS BEACHED FINAL LAND BOINT		AIR MISSION HAS REACHED AIR TO AIR LAUNCH POINT	AIR_TO_AIR GCAP1	AIR_TO_AIR GCAP!	AIR MISSION HAS LAUNCHED	IS ENGAGED	IS ENGAGED	HAS REACHED EFFECTIVE CASUALTY LIMIT	UNIT IS NO LONGER COMBAT EFFECTIVE	S DESTROYED, LEMMINATING ENGAGEMENT	S DESTROYED TERMINATING ENGAGEMENT	HAS TERMINATED ENGAGEMENT	Initial engagement:	nkial engagement:	Initial engagement:	Cumulative losses:
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1174 060830ZJAN99			AGCON_1	ENGAGEMENT STATUS CHANGE	IS ENGAGED	N	NF_AP	
1175 060830ZJAN99	GROUND_ENGAGEMENT 7	32SPG819048	AGCON_1,MANCON_3	REPORT	Initial engagement:	IIS	SILK	
1176 060830ZJAN99	GROUND_ENGAGEMENT 7 32SPG819048		AGCON_1,MANCON_3	REPORT	Initial engagement:	Ž	INF H/B	
1177 080830ZJAN99	GROUND_ENGAGEMENT 7		AGCON_1,MANCON_3	REPORT	Cumulative losses:	2	NORTH RD	
1178 060830ZJAN99	GROUND ENGAGEMENT 7		AGCON_1,MANCON_3	REPORT	Cumulative losses:			
1179 060830ZJAN99	GROUND_ENGAGEMENT 7	32SPGB19048	AGCON_1,MANCON_3	REPORT	No changes in CDA since last report.			
1180 060830ZJAN99	VMV_PURPLE	32SPF773974	MANCON_4	OBJECT DETECT	HAVE DETECTED BRIDGE			32SPF738992
1181 060830ZJAN99	VMV_PURPLE	32SPF773974	MANCON_4	OBJECT DETECT	HAVE DETECTED RIVER			32SPF742979
1182 080830ZJAN99	BCAS14	32SPG901122	MANCON_3	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
1183 080830ZJAN99	BCAS15	32SPG901122	MANCON_3	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
1184 080830ZJAN99	DL403	32SPF625617	AGCON_1	AIR RTE POINT	AIR MISSION HAS REACHED FINAL LAND POINT			
1185 080830ZJAN99	DL403	32SPF625617	AGCON_1	AIRCRAFT STAT				
1186 060830ZJAN99	GCAP1	32SPG663123	MANCON_2	AIR RTE POINT	AIR MISSION HAS REACHED AIR TO AIR LAUNCH POINT			
1187 060830ZJAN99	BOGEY7	32SPF951907	AGCON_1	AD ENGAGE NOTIFY	BOGEY7 HAS BEEN FIRED ON BY AAM - NO HITS	_		
1188 060830ZJAN99	VF GREEN	32SPG887019	MANCON 2	ASSESSMENT REPORT	AIR_TO_AIR Msn# GCAP1			
1189 060830ZJAN99	BA584	32SPF625817	AGCON 1	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
1190/060830ZJAN99	LHA	32SPF962990	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED B	BX BA	BA564	32SPF858621
1191 060830ZJAN99	BA564	32SPF658621	AGCON_1	AIR MSN ILLUMINATED	AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR			
1192 060830ZJAN99	LHA	32SPF962990	MANCON_4	AIR TRK DATA		BY BC	BCAS15	32SPG898048
1193 060830ZJAN99	THA THA	32SPF962990	MANCON_4	AIR TRK DATA		BZ BC	BCAS14	32SPG898048
1194 060830ZJAN99	YH.	32SPF962990		AIR TRK DATA	AIR TRACK DETECTED C	Γ	BCAS13	32SPG868066
1195 060830ZJAN99	PCAS7	32SPF587889	MANCON_4, MANCON_1	AIR RTE POINT	AIR MISSION HAS REACHED ATTACK POINT			
1196 060630ZJAN99	TANK2	32SPF587889	AGCON_1	STATUS CHANGE	RECEIVING AIR-TO-SURFACE FIRE			
1197 060830ZJAN99	VF_PURPLE	32SPF587889	MANCON_4	ASSESSMENT REPORT	AIR_TO_SURFACE PCAS7	T.	TANK2	
1198 060830ZJAN99	VF_PURPLE	32SPF587889	MANCON_4	ASSESSMENT REPORT	AIR_TO_SURFACE PCAS7	T.A	TANK2	
1199 060830ZJAN99	SOF	32SPF587889	MANCON 1	ASSESSMENT REPORT	AIR_TO_SURFACE PCAS7	T.	TANK2	
1200 060830ZJAN99	SOF	32SPF587889	MANCON_1	ASSESSMENT REPORT	AIR_TO_SURFACE PCAS7	T.	TANK2	
1201 060630ZJAN99	TANK2	32SPF567689	AGCON_1	ASSESSMENT REPORT	AIR_TO_SURFACE PCAS7	T.	TANK2	
1202 060830ZJAN99	TANK2	32SPF587889	AGCON_1	ASSESSMENT REPORT	AIR_TO_SURFACE PCAS7	Ϋ́	TANK2	
1203 060630ZJAN99	BCAS14	32SPG897031	MANCON_3	AIR RTE POINT	AIR MISSION HAS REACHED ORBIT POINT			
1204 060830ZJAN99	BCAS15	32SPG697031	MANCON_3	AIR RTE POINT	AIR MISSION HAS REACHED ORBIT POINT			
1205 060830ZJAN99	DDG	32SPF959851	MANCON_2	FIRE MSN WARNING	FIRE MISSION DDG UNIT IS NOT WITHIN AN ACTIVE FIRE SUPPORT AREA.			
1206 060830ZJAN99	DDG		MANCON_2	FIRE MSN WARNING	FIRE MISSION DDG UNIT IS NOT WITHIN AN ACTIVE FIRE SUPPORT AREA.			
1207 080830ZJAN99	900	32SPF959851	MANCON 2	FIRE MSN PREP	FIRE MISSION DDG IN PREPARATION TO FIRE			

1175 1177 No demage assessed. CE_PRODUCT 1178 TROOPS TROOPS		1	_	L					
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4. Parsed Data File 2 from 2-23-99_J41J43_V1

The following is the second of the parsed data files produced from an example four-node run. This parsed data file includes only data from the beginning of the run sequence of the scenario. The data was always parsed twice to ensure that no data was lost or left out.

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org	Persed Date (2)	MI	2-23-99 J41J43 V1	200000		,		
060800ZJAN99		32SPG726000	MANCON 1	OR JECT DETECT	MESSAGE	TRACK	UID2	UTM2
080800ZJAN99		32SPG726000	MANCON 1		HAVE DETECTED STRUCTURE			32SPG727000
060800ZJAN99		32SPG728000	MANCON 1		HAVE DETECTED BRIDGE			32SPF738992
060800ZJAN99	SOF	32SPG726000	MANCON_1		HAVE DETECTED RIVER			32SPG740005
3801ZJAN99	H	32SQG099006	MANCON 2		CRUISE MISSILE HAS REACHED ATTACK POINT			32SFF738996
0608012.JAN99	SOFECASI	32SQG099007	MANCON 2	PORT	AIR TO SURFACE Man# H1	-		
8017.JAN99	FCASI	325PG901122	MANGON 1		AIR MISSION HAS LAUNCHED			
060601ZJAN99	GCAP1	325FG901122	MANCON 1	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
060801ZJAN99		32SPF625617	AGCON 4	AIK MSN LAUNCH	AIR MISSION HAS LAUNCHED			
060801ZJAN99		32SPF962990	MANCON	AIR MON LAUNCH	AIR MISSION HAS LAUNCHED			
060801ZJAN99		32SPF658621	AGCON 1	AIR IRE DATE	AIR IRACK DETECTED	7	AA86	32SPF658621
060801ZJAN99	CHA	32SPF962990	MANCON 4		AID TOACK PETFOTER			
060801ZJAN99	LHA	32SPF962990	MANCON 4		AID TOACK PETECTED	¥		32SPG864122
060801ZJAN99		32SPF962990	MANCON 4		AID TOACK DETECTED	_		32SPG934140
060801ZJAN99		32SPG901122		15	AID MISSION 14 MISSION 14	Σ	SOFFCASI	32SPG988160
060801ZJAN99		32SPG901122	MANCON 1		AID MISSION TAS LAUNCHED			
060802ZJAN99		32SPG901122	MANCON_3	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
080802ZJAN99	ASI	32SQG025193	MANCON 1	AIR RTE POINT	AIR MISSION HAS BEACHED OBBIT DOINT			
060802ZJAN99	82	32SPG901122	MANCON_3	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
060802ZJAN99		32SPF962990	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED	4	00400	2007.000000
060802ZJAN99		32SPF962990	MANCON_4	AIR TRK DATA	AIR TRACK DETECTED	2 0		32SPG914087
DECISION TANDO	LHA LA	32SPF962990	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED			32SPG035438
0608027.1ANO9		32SPF86299U	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED			32SPG827123
OBORDZ IANGO	DOACE	325FG901122		AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			200 000
060802Z.1AN99		325PG801122	MANCON 4, MANCON 1	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
060802Z.JAN99	20	32SP G002134	MANOON 3	SHIP MOVE	HAVE COMMENCED MOVEMENT			
060802ZJAN99		32SPG901122	MANCON S	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
060802ZJAN99		12SPG901122	MANCON A MANCON A	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
060802ZJAN99		32SPG901122	MANCON 1	AID MON I ALINON	AIR MISSION HAS LAUNCHED			
060802ZJAN99	FCAS1	32SQG025193	MANCON 1	AID DIE DOINT	AIR MISSION HAS LAUNCHED			
060802ZJAN99		32SPG901122	MANCON 3	AID MONI AIMCH	AIR MISSION HAS REACHED ORBIT POINT			
080802ZJAN99		32SPG901122	MANCON 4, MANCON 1	AIR MSN I ALINCH	AID MISSION DAS LAURCHED			
080802ZJAN99		32SPG901122	MANCON 2	AIR MSN LAUNCH	AIR MISSION HAS I AIMCHEN			
080802ZJAN99		32SPG901122	MANCON_1	AIR MSN LAUNCH	AIR MISSION HAS LAINCHED			
060802ZJAN99		32SPG901122	MANCON 1	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
OGOGOZZJANSS	GCAP4	12SPG901122	~	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
OCCOUNTY IA NOO	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	32SPG901122	MANCON 4, MANCON 1	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
080802ZJAN99		32577902990	MANCON 4		AIR TRACK DETECTED	œ	PCAS4	32SPG887088
060802Z.JAN99		323FF 902880	MANCON 4		AIR TRACK DETECTED		GCAP4	32SPG884122
060802ZJAN99		32SPF982990	MANCON 4		AIR TRACK DETECTED	L		32SPG935138
060802ZJAN99		32SPF962990	MANCON 4		AIR IRACK DETECTED	D		32SPG935138
060802ZJAN99	LHA	32SPF962990	MANCON 4		AID TO A DETECTED			32SPG864122
060802ZJAN99		32SPF962990	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED	≥ ;	PCAS3	32SPG872054
060602ZJAN99		32SPF962990	MANCON 4	AIR TRK DATA	AR TRACK DETECTED	× ,		32SPG928052
060802ZJAN99		32SPF962990	MANCON_4	AIR TRK DATA	AIR TRACK DETECTED	- ^		325PG968154
DBOROZZJANSB	LIA	2SPF962990	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED	1 4		325F G072054
0608027.JAN99		32SPF962990	MANCON 4		AIR TRACK DETECTED			32SPG926052
060602ZJAN99		32SPF962990	MANCON 4		AIR TRACK DETECTED			32SPG871051
060802ZJAN99		32SPF082990	MANCON 4	AIR IRK DATA	AIR TRACK DETECTED			32SPG927049
2ZJAN99		32SPG901122	MANCON 4 MANCON 1	7	SURFACE TRACK DETECTED	ΑĒ	PB1	32SPG682134
22.JAN99	GCAP5 32	32SPG801122			AIR MISSION HAS LAUNCHED			
060802ZJAN99		32SPG901122	MANCON_1	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
3ZJAN99		32SPG817049			AIR MISSION HAS REACHED ATTACK POINT			
		- 1			AIR_TO_SURFACE BCAS!		OG HIGON	
	GCAP2	31NAA661000			AIR_TO_SURFACE BCAS1	-	NORTH RD	
			MANCON 2	AIR RIE POINT	AIR MISSION HAS REACHED ORBIT POINT			
060803ZJAN99		1	MANCON 4			İ		
080803ZJAN99			MANCON 4	AIR TRK DATA			PCASE	32SPG872054
- T	LHA	- 1		AIR TRK DATA	CTED	2 4		2SPG82/123
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		32SQG080209	MANCON 1		AIR MISSION HAS REACHED ORBIT POINT			
אריויייש		7	MANCON 3		AIR MISSION HAS REACHED ORBIT POINT	T		
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139 060504ZJAN99	SUB1	32SQG110095	1	SHIP MOVE	HAVE COMMENCED MOVEMENT	,	-	-
141 060804ZJAN99	FCASA	32SPG738008	AGCON 1	UNIT DESTINATION	HAVE REACHED ASSIGNED DESTINATION			
142 060804ZJAN99	BCAS2	3250C000ZUB	MANCON	AIR RTE POINT	AIR MISSION HAS REACHED ORBIT POINT			
-		32SPF728830	ACCON 4	STATIS CHANGE	AIR MISSION HAS REACHED ATTACK POINT			
		32SPF728830	AGCON 1	STATIS CHANGE	RECEIVING AIR-TO-SURFACE FIRE			
145 060804ZJAN99	WF_BLUE	32SPF728830	MANCON 3		AID TO SUPPOSE FIRE			
146 060804ZJAN99	VF_BLUE	32SPF728830	MANCON 3	ASSESSMENT REPORT	AID TO SIBEACE BOASS		AGSUP	
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	INF_A/B	32SPF728830	MANCON 3		AID TO SIDEAGE DOADS	*	AGSUP	-
	AGSUP	32SPF726830	AGCON_1		AID TO GUIDEACE BOASS		AGAIR	
	AGAIR	32SPF728830	AGCON 1		AID TO SUBSTACE BURSE	1	AGSUP	
	LHA	32SPF962990	MANCON 4		AIR 10 SURFACE BCASZ		AGAIR	
	HILLIFY	32SPF841931	AGCON 1		SURFACE INACK DETECTED	AM	SUB1	32SQG110095
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155 060804ZJAN99	SOF	12CDE726000	MANCON	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED LIGHT, ARMOR UNIT	2	LDVEH1	32SPG737005
		320011120000	MANCON 1		DETECTION IS A COMPANY SIZED LIGHT, ARMOR UNIT		LDVEHS	32SPG737005
		RESOURCE DISCO	MANCON		DETECTION IS A COMPANY SIZED LIGHT, ARMOR UNIT	Ι	DVFHI	32SPG737005
		323FF (20988	MANCON		DETECTION IS A COMPANY SIZED LIGHT ARMOR UNIT		DVEH	125DC71700E
		323FF (26989	MANCON		DETECTION IS A COMPANY SIZED LIGHT ARMOR UNIT			320DC73700E
		32SPF 726999	MANCON +		DETECTION IS A COMPANY SIZED LIGHT ARMOR LINIT	10		32570737005
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_		32SPF838900	MANCON 3	T CHANGE	DETECTION IS A SECTION SIZED INFANTRY UNIT	,,	חווי ובא	32377041920
102 0000012 141000		3250,6080,208	MANCON 1		AIR MISSION HAS REACHED ORBIT POINT			07011041070
104 1000000 101000		32SPF602645	AGCON_1	ı	AIR MISSION HAS LAUNCHED			
		32SQG080209	MANCON 1	AIR RTE POINT	AIR MISSION HAS REACHED ORBIT POINT			
			MANCON 4, MANCON 1	AIR RTE POINT	AIR MISSION HAS REACHED FINAL LAND POINT	+		
	FCASI	. 1	MANCON 4, MANCON 1	AIRCRAFT STAT		+		
		- 1	MANCON 1	AIR RTE POINT	AIR MISSION HAS REACHED ORBIT POINT	+		
RANKET ANDROOM OLD		32SPG901122	MANCON 4, MANCON 1	AIR RTE POINT	AIR MISSION HAS REACHED FINAL LAND POINT	+		
TO COCCUTATION		32SPG901122	MANCON 4, MANCON 1	AIRCRAFT STAT		+		
BANKET COORD 1/1		32SPG901122	MANCON 3	AIR RTE POINT	AIR MISSION HAS REACHED FINAL LAND POINT	†		
472 Occopy 14100	BCASS	32SPG901122	MANCON_3	AIRCRAFT STAT		+		
173 00000020ANBB		32SQG110095	MANCON 2	AIR MSN LAUNCH	CRUISE MISSILE HAS LAUNCHED	+		
175 DROROSZ JANIOO	20110	325FT-86299U	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED	AN	ASW	1250C081081
178 OROBINEZ IANIDO		32377041831	AGCON	VISUAL DETECT	HAVE DETECTED COMPANY SIZED INFANTRY UNIT		9	12SPER48024
		_ .	AGCOM	VISUAL DETECT	HAVE DETECTED COMPANY SIZED INFANTRY UNIT			32SPF848924
178 DRORDSZ JANDO		١.	MANCON Z		HAVE DETECTED MOUNTAIN			32SPFR3GOTA
		-	MANCON 2		HAVE DETECTED COMPANY SIZED INFANTRY UNIT	2	NF AP	32SPF848923
		225FF 010837	MANCON 2		HAVE DETECTED A SHIP	8		32SPF854927
		125DE847023	MANCON 4		HAVE DETECTED MOUNTAIN	-		32SPF849927
_		12SDER47021	MANCON 4	VISUAL DETECT	HAVE DETECTED SECTION SIZED ARTILLERY UNIT	2 FF	FR0G1	32SPF818937
183 060805Z.JAN99		325DE847023	HANCON		HAVE DETECTED SECTION SIZED INFANTRY UNIT	E		32SPF843929
184 DROROSZ IANGO		323FT04/823	MANCON		HAVE DETECTED SECTION SIZED INFANTRY UNIT	3		32SPF843929
185 080805Z.JAN99	VEL INT.	325PF041823	MANCON 4	VISUAL DETECT	HAVE DETECTED SECTION SIZED INFANTRY UNIT	2	HILLIFY	32SPF843929
188 0808057.JAN99		ا۔	ACCOUNT.		DETECTION HAS BEEN TEMPORARILY LOST	2		32SPF838877
187 060805ZJAN99		1	MANCON		DETECTION HAS BEEN TEMPORARILY LOST		Ī	32SPG924101
		.	MANCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	2 10		32SPG924101
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		1	MANCON 1		DETECTION HAS BEEN TEMPORARILY LOST	2 10		32SPG924101
191 060805ZJAN99	SOF	32SPF726999			DETECTION HAS BEEN TEMPORARILY LOST	2 [[LDVEH1	32SPG924101
192 060805ZJAN99	INF A/B	Т			DETECTION HAS BEEN TEMPORARILY LOST	2 10		32SPG924101
193 060805ZJAN99		Τ			DELECTION HAS BEEN TEMPORARILY LOST	7		32SPF814941
194 060805ZJAN99	INF A/B	32SPF808888		VISITAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	7 H		32SPF814941
195 060805ZJAN99		L.		AID DIE DOINT	MELECTION HAS BEEN TEMPORARILY LOST	7 H	HILLIFY	32SPF814941
196 060805ZJAN99		1	MANCON 3	AIRCRAFT STAT	AIR MISSION HAS REACHED FINAL LAND POINT			
		L	MANCON 2	AIR RTE POINT	CRIISE MISSII E HAS DEACUED ATTACK CORET			
			AGCON_1	STATUS CHANGE	LINDER AIR ATTACK	+		
		32SQG097097	MANCON_2	PORT	AIR TO SUBFACE Ment ASM			
			MANCON 4		AIR TRACK DETECTED			
201 080808ZJAN99			1	ATED	AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR	2	BOGETT	32SPF /69737
202 0608082JAN99					HAVE DETECTED COMPANY SIZED ENGINEER UNIT	2 EN		23CDE700807
	TANK	T			HAVE DETECTED COMPANY SIZED ENGINEER UNIT	2		2SPF799877
205 060806ZJAN88		1			HAVE DETECTED COMPANY SIZED ENGINEER UNIT	S EN	ENG	32SPF799887
206 060806ZJAN99		32SPF761891	AGCON 1		HAVE DETECTED COMPANY SIZED ENGINEER UNIT	2 EN		2SPF799887
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	LAV-COMMAND	-	+	1						
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F	DETECTION HAS REEN TEMPORADII VI DOT	IS ENGAGED	IS ENGAGED	HAS ASSUMED WITHDRAW MISSION DUE TO CPR (0.01604<=0.17000)	HAS TERMINATED ENGAGEMENT, NO LOS	HAS TERMINATED ENGAGEMENT, NO LOS		WITHIN BARRIER MOUNTAIN NAMED HILL	DADDIED HOASSADIE (ANIT 14) TOTAL ANATONIA CONTROLLA	HAS TERMINATED FNOAGEMENT NOTOS	HAS TERMINATED ENGAGEMENT NO LOS	HAS INITIATED ENGAGEMENT	HAS INITIATED ENGAGEMENT	AIR MISSION HAS REACHED ATTACK POINT	RECEIVING AIR-TO-SURFACE FIRE	AIR_TO_SURFACE PCAS3	AIR_TO_SURFACE PCAS3	AIR TO SUBFACE PCASS	AIR TO SURFACE PCASS	AIR TO SURFACE PCAS3	CRUISE MISSILE HAS LAUNCHED	AIR TRACK DETECTED	AIR MISSION HAS REACHED ATTACK POINT	RECEIVING AIR-TO-SURFACE FIRE	AIR_TO_SURFACE BCAS5	AIR TO SURFACE BCASS	AIR TO SUBFACE BOASS	AIR MISSION HAS REACHED FINAL LAND POINT		HAVE DETECTED COMPANY SIZED LIGHT ARMOR UNIT	AVE DETECTED COMPANY SIZED LIGHT ARMOR UNIT	AAVE DETECTED COMPANY SIZED LIGHT ARMOR UNIT	HAVE DETECTED COMPANY SIZED LIGHT ABMOR UNIT	AVE DETECTED COMPANY SIZED LIGHT ARMOR UNIT	AIR MISSION HAS LAUNCHED	CRUISE MISSILE HAS REACHED ATTACK POINT	MR TRACK DETECTED	URFACE TO AIR CG	SURFACE_TO_AIR CG	ERMINATING ENGAGEMENT WITH TARGET	IN MISSION CANCELED DUE TO LOSS OF AIRCRAFT	AIR MISSION HAS REACHED ATTACK POINT	RECEIVING AIR-TO-SURFACE FIRE	IR_TO_SURFACE BCAS6	AIR TO SURFACE BCASE	IR TO SUBEACE BOASS	IR TO SURFACE BCASE	IR TO SURFACE BCAS6	IR TO SURFACE BCAS8	IN TO SURFACE BOASO		HAVE DETECTED COMPANY SIZED INFANTRY UNIT	AVE DETECTED COMPANY SIZED ENGINEER UNIT	AVE DETECTED COMPANY SIZED ENGINEER UNIT	AVE DETECTED COMPANY SIZED ENGINEER UNIT	HAVE DETECTED COMPANY SIZED ENGINEER UNIT	AVE DETECTED COMPANY SIZED ENGINEER UNIT	AVE DETECTED A SHIP	HAVE DETECTED COMPANY SIZED INFRANTON INDE
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863			> <		0				DOGGOGGANAS
203			2		0				JOGGOS CANADA
	200000		5	•	3	0			060810ZJAN99
070	INCOPS International Assets and		0	-	9	٥			
	HIMMANA-40MM-MG		5	-	-	0			
	IROOPS		7	-	0	0			
	TROOPS		•	0	0	0			
	IROOPS		6	0	0	0			
	IKOOPS		9	-	0	0			
	TROOPS		4	0	0	0			
	IROOPS		7		0	0			
	HMMWV-40MM-MG		0	0	-	٥			
537			•	0	•	0			060806ZJAN99
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No damage assessed.	CE_PRODUCT		•	0	0	٥			
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No damage assessed.	CE_PRODUCT		•	۰	٥	•			
	TROOPS		2	-	0	0			
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950 NO ASSESSMENT			5	-	•	0	0		
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	i NOOKS	/67	1	\mathbf{I}					

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553 060814ZJAN99	BOGEY3	32SPF602845	AGCON 1	AIR MEN I ALINCH		°	Ξ	-
554 060814ZJAN99	П	32SPF625617	AGCON_1	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED		•	
		32SQF124981	П	AIR MSN LAUNCH	CRUISE MISSILE HAS LAUNCHED	1		
_	7	32SPF962990	\neg	AIR TRK DATA	AIR TRACK DETECTED		ACWA	200000000000000000000000000000000000000
557 060815ZJAN99	Т	32SPF962990	MANCON 4	AIR TRK DATA	AIR TRACK DETECTED	A7		325GG003022
558 060615ZJAN99	DL403	32SPF607678	- 1	AIR MSN ILLUMINATED	AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR			20100100
	T	32SPF /23895	MANCON	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	2	DVEH	32SPG921098
561 0608157.IAN99	Т	325PF / 23885	MANCON	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST			32SPG921096
562 060815ZJAN99	Т	32SPF173983	MANCON	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST			32SPG921098
583 080815ZJAN99	Т	32SPF723995	MANCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	2 U	LDVEH1	2SPG921098
	П	32SPF723995	MANCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST			32SPG921098
	9 ASW4	32SQF111983	MANCON 2	AIR RTE POINT	CRUISE MISSILE HAS BEACHED ATTACK DOINT		LDVEH1	2SPG921098
	П	32SQF111983		ASSESSMENT REPORT	AIR TO SURFACE Mand ASWA			
	NF AB	32SPF725883	1 1	UNIT MOVE	COMMENCING MOVEMENT		1	
566 060515ZJAN99		32SPF728830	\neg	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	4	NF A/B	32SPF728858
	NI AND	32SPF726662	Т	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED SUPPLY UNIT			32SPF728833
571 0808187.IAN99	1	325PF/26868	MANCON 3	UNIT MOVE	COMMENCING MOVEMENT			
572 060816ZJAN99	9 BOGEY3	32SPF728827	AGCON 4	AIR TRK DATA	AIR TRACK DETECTED	BA B	BOGEY3 3	32SPF726827
573 080816ZJAN99	Г	32SPF728867	MANCON 3	INT DEFENSIVE MISSION	HAS ASSIMED DEFINED THE BY NON-SAME SIDE RADAR			
574 080816ZJAN99		32SPF726862	MANCON 3	UNIT DEFENSIVE MISSION	HAS ASSUMED DEFENSIVE MISSION DUE TO CPR (0.39252<=2.00000)			
575 060816ZJAN99		32SPF728862	MANCON_3	ENGAGEMENT STATUS CHANGE	Т		4100	
	- 1	32SPF728830	AGCON_1	ENGAGEMENT STATUS CHANGE	Т	X	AGSUP AND AND	
577 D80818ZJAN99	AGSUP	32SPF728830	AGCON_1	ENGAGEMENT STATUS CHANGE	IS ENGAGED	[]	NE AM	
570 0006182JAN99		32SPF750829			AIR MISSION HAS REACHED ATTACK POINT		2	
580 060816ZJAN99		325PF / 50631			RECEIVING AIR-TO-SURFACE FIRE			
581 060616ZJAN99	1	32SPF/50831	MANCON 3	ASSESSMENT REPORT	AIR_TO_SURFACE BCAS9	50	LKS	
582 060816ZJAN99		32SPF750831			AIR_TO_SURFACE BCAS9	55	SILK5	
583 060816ZJAN99		32SQF098885	2		COLINE MISSIE LAS LANGUED	5	SILKS	
	- 1	32SPG663123			AIR MISSION HAS REACHED AID TO AID I ALINOU DOINT			
	VF_GREEN	32SPF753896			AIR TO AIR GCAP1	ò	BOGEVS	
587 DEDETATION	. 1	32SPF753896	AGCON 1		AIR_TO_AIR GCAP1	S &	AGAIR1	
588 060816ZJAN99	Silks	323PF802880	MANCON 4			9B		32SQF088993
589 060816ZJAN99	1	32SPF728886	MANCON 3		DETECTION HAS BEEN TEMPORARILY LOST	2	9	32SPF538966
	INF_A/B	32SPF726862	MANCON 3	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST			32SPF790785
591 060818ZJAN99		32SPF625817	AGCON_1		AIR MISSION HAS LA INCHED	20	SILKS	32SPF797771
592 060816ZJAN98	- 1	32SPF602845			AIR MISSION HAS LAUNCHED			
504 AGOSTOZJANSB		32SQF096865	2	AIR RTE POINT	CRUISE MISSILE HAS REACHED ATTACK POINT			
	1	325CF098885	2	ASSESSMENT REPORT	AIR_TO_SURFACE ASW5	36	SUBZ	
	GCAP1	325GF096965		ASSESSMENT REPORT	AIR_TO_SURFACE ASWS	ಹ	SUB2	
		32SDF795913	MANCON 2	Appropriate POINT	AIR MISSION HAS REACHED AIR TO AIR LAUNCH POINT			
598 060817ZJAN99	П	32SPF795913	AGCON 1	ASSESSMENT REPORT	AIR TO AIR GCAPT	8	80GEY3	
599 D60617Z.JAN99		32SPF810958	MANCON 2	AD ENGAGE END	TERMINATING ENGAGEMENT WATH TRACK	S 4	AGAIRT	
800 080817ZJAN99	BOGEY3	32SPF795913	AGCON_1	AIR MSN CANX	AIR MISSION CANCELED DUE TO LOSS OF AIRCRAFT	6		
602 060817Z.IAN99	7"	32SPF795913	AGCON 1	AIRCRAFT STAT				
	QA142	32SPF656674	AGCON 1	AIR IRK DATA	AIR TRACK DETECTED	BC 04	QA142 32	32SPF656674
604 060817ZJAN99	П	32SQG052159	AGCON_1	SHIP MOVE	HAVE COMMENCED MOVEMENT			
605 060817ZJAN99	SUB2	32SQF098985		SHIP MOVE	UNABLE TO MOVE - SHIP DAMAGED	+		
807 060817ZJAN99	1	32SPG901122	MANCON 3	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
	BCAS10	32SPF887877	MANCON 3	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED			
609 060817ZJAN99	il	32SPF866877	AGCON_1	iii	RECEIVING AIR-TO-SI IREACH EIDE			
610 060817ZJAN99	VF_BLUE	32SPF867877	MANCON_3		AIR_TO_SURFACE Msn# BCAS10			
812 DRUR177 IANGO	- 1	32SPF867877	MANCON 3	REPORT	AIR_TO_SURFACE Man# BCAS10			
813 080817ZJAN99	7	325PF902880	MANCON 4					32SPG928052
614 060817ZJAN99	LFA	32SPF962990			SI BEACE TRACK DETECTED	9E BC	811	32SPG926052
	THA	32SPF962990				1		SQG052159
	BOGEY4	32SPF771801			RADAR	Ī	800ET# 32	SP-1/1801
618 060818Z.JAN99	FROGA	32SPF805917	AGCON 1	VISUAL DETECT	HAVE DETECTED SQUADRON SIZED AVIATION UNIT	Z	RPLE	32SPF842929
619 060818ZJAN99	1	32SPF844929	1	VISUAL DETECT				32SPF807934
820 060818ZJAN99	SOF	32SPF722994	MANCON 1	VISUAL DETECT		F.		32SPF808917
621 060818ZJAN89		32SPF722994	MANCON 1	VISUAL DETECT	HAVE DETECTED COMPANY SIZED LIGHT ARMOR UNIT	3 5	LDVEH1	32SPG729013
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657		FROG-7-SSM	1									
858		TROOPS	2	_								
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	32SPF728830	A A C C C A	WEUM DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	3 INF	H/B 32SPF729830
	32001730030	AGCON	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	3 INF_H/B	B 32SPF729830
	32377720030	AGCON	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	A HNI	
	32SPF728830	AGCON 1	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	4 INF A/R	
	32SPF728830	AGCON 1	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY LINIT	A ING AM	
	32SPF728830	AGCON_1	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY LINIT	A INIC AG	
	32SPF728830	AGCON 1	VISIJAI DETECT CHANGE	DETECTION IS A COMBANY SIZED INTERACTION CONT.		
	32SPF728830	AGCON 1	VISIAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	A INF AB	B 32SPF728830
	32SPF728830	AGCON 1	VISIJA! DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	A INF AB	1
	32SPF728830	AGCON 4	Mediat Defect Culation	DETECTION IS A COMPANY SIZED INTANIAL UNIT	4 INF_A	
	32SPF728830	AGCON 1	WEINE DETECT CHANGE	DEJECTION IS A COMPANY SIZED INFANTRY UNIT	A INF A	
	000000000000000000000000000000000000000	NOODY TOOOT	VISUAL DETECT CHANGE	DELECTION IS A COMPANY SIZED INFANTRY UNIT	H LL	
	3437774030	AGCON	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	3 INF	
	325FF / 28830	AGCON 1	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	INE H	
	32SPF728830	AGCON, 1	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY LINIT	3 INIC 179	Ī
	32SPF728830	AGCON_1	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INCAMENT INCIT		
	32SPF728830	AGCON 1	VISUAL DETECT CHANGE	DETECTION IS A COUNTY OFFICE WITH THE PROPERTY OF THE PROPERTY	S INF HVB	32SPF/28830
	32SPF728830	AGCON 1	Wellal DETECT CLANOR	DETECTION IS A COMPANY SIZED INTANIAL UNI	3 INF_HB	
	000000000000000000000000000000000000000	, 100004	VISCAL DELECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	3 INF	_
	34311/20030	AGCON	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	3 INF H	
	32SPF /28830	AGCON 1		DETECTION IS A COMPANY SIZED INFANTRY UNIT	4 INF AR	
	32SPF728830	AGCON_1		DETECTION IS A COMPANY SIZED INFANTRY LINIT	- 144	Ī
	32SPF728830	AGCON 1		DETECTION IS A COMPANY SIZED INCANTON INIT	Y-1111	
	32SPF728830	AGCON 1		DOTTO TO THE STATE OF THE STATE	4 INF A	
	10SDE728830	ADCOM 4	VIOUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	4 INF AB	
	1	AGCOM.	i	DETECTION IS A COMPANY SIZED INFANTRY UNIT	A INF AB	32SPF728830
	ı	AGCON_1		DETECTION IS A COMPANY SIZED INFANTRY UNIT	A BALL	
	32SPF728830	AGCON 1		DETECTION IS A COMPANY SIZED INCAATED LIMIT	100 Line	
	32SPF728830	AGCON 1		DETECTION IS A COURTAIN SHIP WITH THE PROPERTY OF THE PERSON OF THE PERS	Y L	
	1	AGCON 1	VISITAL DETECT	LANC DETECTED COMPANY SIZED INFANTRY UNIT	4- IN-	
INF H/B	ļ	MANCON	WOODL DETECT	TAVE DETECTED COMPANY SIZED INFANTRY UNIT	2 INF A	
	-	MANCON 3	VISUAL DETECT CHANGE	DETECTION IS A SQUADRON SIZED AIR_SQUADRON UNIT	5 AGAIR	
		MANCON_3	VISUAL DETECT CHANGE	DETECTION IS A SQUADRON SIZED AIR SQUADRON UNIT	5 AGAIP	Ī
		MANCON 3	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED SLIDD! V LINIT	1004	
	l	MANCON 3	VISHAL DETECT CHANGE	DETECTION IS A SOLIMBOOK SITTLE AND ASSISSED.	O AGSU	
	32SDE720830		WORLD DETECT CHANGE	DELECTION IS A SUCADRON SIZED AIR SQUADRON UNIT	6 AGAIR	32SPF729830
NE A/O	200000000000000000000000000000000000000	S NOONA	VISUAL DE IECT CHANGE	DETECTION IS A SQUADRON SIZED AIR SQUADRON UNIT	6 AGAIR	32SPF729830
	22377704843	MANCON 4	VISUAL DETECT	HAVE DETECTED SECTION SIZED ARTILLERY UNIT	7 ARTY1	32505785010
	32SPF784943	•	VISUAL DETECT	HAVE DETECTED SECTION SIZED ARTII I FRY LINIT	7	9300011030
	32SPF522805	MANCON 2	VISUAL DETECT STATUS	DETECTION HAS REEN LOST	1	1
	32SPF522805	2	VISITAL DETECT CTATILE	Detection the Britain Con	AN AN	
	32SPF784943		Mellal Detect etatio	DELECTION THE DECK LOSI	3 AAAVIP	
	1	ALANICON D	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	2 FROG1	
	Т	7	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	4 INF H/P	
	Т	MANCON 4	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	3 FROG	
	- 1	MANCON 4	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	S EBOS	+
	32SPF522805	MANCON_2	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	2 /44//	WAY DIDDIE 3250ESEGGO
		MANCON 2	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	AMA	~
	ı	2	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	AMA O	VMV_PURPLE 32SPF850699
	32SPF522805	2	WELLAL DETECT CTATUS	DELECTION TWO BEEN LOS!	e ENG	32SPF237886
	1		MOUNT DETECT STATES	DETECTION HAS BEEN LOS!	6 ENG	32SPF237886
		MANCON	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	6 ENG	32SPF237886
	1	4	VISUAL DELECT STATUS	DETECTION HAS BEEN LOST	6 ENG	32SPF237886
2 100		,	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	6 ENG	32SPF237886
VANV TORFLE	- 1	MANCON 4	VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	3 FROG	325PG518035
27	32SFF844828		VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	3 FROG1	32SPG518035
	- 1		VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	4 FROG	32SOF013787
		AGCON 1	AIR RTE POINT	AIR MISSION HAS REACHED ATTACK POINT		
	32SPG901122	MANCON 2	STATUS CHANGE	RECEIVING AIR-TO-SURFACE FIRE		
		MANCON 2		HAS REACHED EFFECTIVE CASUALTY LIMIT		
	32SPG901122	MANCON 1		HAS REACHED FEFECTIVE CASHALTY HANT		
		8		HAS REACHED EFFECTIVE CASUALTY LIMIT		
m,	32SPG901122	MANCON 4		HAS REACHED FEFECTIVE CASHALTY INSIT		
AGAIR1	Г			AIR TO SUBFACE BOOKY		
	l	AGCON 1		AID TO SIBEROE DOCKY	3	
	32SPG901122			AID TO SUDEACE GOOGEVS	Vr. PURPLE	FLE
	32SPG901122		ASSESSMENT REPORT	AID TO SIDEACE DOCEVA	VF BL	2
	1	AGCON 1		AID TO SIDEACE DOCEVA	7.7	9
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	1	MANCON		AIR_IO_SURFACE BOGEY2	S	
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	320000001122	MANAGON 2		AIR_TO_SURFACE BOGEY2	20	
210015				AIR_TO_SURFACE BOGEY2	ΛO	
				AIR_TO_SURFACE BOGEY2	VF PURPLE	PLE
VF_BLUE				AIR TO SURFACE BOGEY2	- P.	
			ASSESSMENT REPORT	AIR TO SUBFACE BOSEVS	Vr BLOE	
	7	-	ASSESSMENT NETON	AIK ID SURFACE BOGEYZ	IVE_FLA	

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701	TROOPS	182							
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106	M-203	27	L						
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and a	ROOFS	202							
710	AT4-US	8							
211	60MM-MTR	3							
712	M-18	130	L						
713	SAW	20	-						
	11 200	17	1						
	M-zus	77	1						
715	M240-MG	8							
718	SMAW	9							
117	TROOPS	182	-						
748	TBOODE	Ş	1						
	- COOL	707							
718	M-18	218							
720	TROOPS	175							
721	TROOPS	282							
	M-18	218							
223	0-30	•			ŀ				
762	TOOOBS	•	1				-		
302	2000		-						
270			1						
227		-	+						
	TROG-1-SOM		1						
170	IROOPS	182	1						
87/	FROG-7-SSM	+	-		1				
730	TROOPS	7							
731	MV-22	7							
732	TROOPS	500							
733	5.0-TRUCK		-						
7.74	STORY OF	2	+						
36	MOLIO V	-	+						
200	Y-I WILL	•				•			
736	HMMWV								
737	SEE	2							
738	FROG-7-SSM	-							
739	TROOPS	-	L						
740	FROG-7-SSM	-	1						
77.1			+						-
672			1						
270			1						
			+						
			-						
745									
	TROOPS		410 473			0			
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	TROOPS		135 132	•		0			
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	MINUTE OF AGO		2 6			٥,			
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	ROOPS		410 473	0		0			
	NIMITZ-CLASS		0			-			
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757	TROOPS		135 132			0			
	TROOPS		135 132			0			
	TROOPS		135 132	0	0	0			

		2SPC001122	MANCON_2	ASSESSMENT REPORT	AIR TO SURFACE BOGEY2	VF_GREEN	-
0608202JAN99 0608202JAN99 0608202JAN99 0608202JAN99 0608202JAN99		ı		LOWIN I MAN	THE CONTRACTOR OF THE PARTY OF	אבנוא	
0000202JAN99 0000202JAN99 0000202JAN99 0000202JAN99 0000202JAN99		32SPF602645	AGCON 1	AIR MON LAUNCH	AIR MISSION HAS LAUNCHED	_	
0608202JAN99 0608202JAN99 0608202JAN99		- 1	MANCON 3	UNIT MOVE	COMMENCING MOVEMENT		
060820ZJAN99 060820ZJAN99 060820ZJAN99		-	MANCON 2	AIR RTE POINT	AIR MISSION HAS REACHED AIR TO AIR LAUNCH POINT		
060820ZJAN99 060820ZJAN99	BOGEY2 32		AGCON 1	ASSESSMENT REPORT	AIR TO AIR GCAP2	BOGEY2	
1		1	MANCON 2	AD FNGAGE END	TERMINATING CHORDERENT WITH TO BE	AGAIR1	
		1.	MANCON 1	AIR WPN LNCH	AID MISSION HAS DEACHED STAND OF MEADON! A MISSION DOWN	돏	
T		32SQG042141			UNDER AIR ATTACK		
0608202JAN99	VF_FLAG	32SQG042141		ASSESSMENT REPORT	AIR_TO_SURFACE FCAS2	PB2	
T					AIR TO SURFACE FCAS2	PB2	
77 0006202JAN99			MANCON 1		AIR TO SURFACE FCAS2	PB2	
Т	32	-1			AIR_TO_SURFACE FCAS2	PB2	
}			AGCON 1		AIR_TO_SURFACE FCAS2	PB2	
		32500042141	AGCON 1	REPORT	AIR TO SURFACE FCAS2	PB2	
080820ZJAN99	BOGEY?	325PG002U59	AGCON 1		AIR MISSION CANCELED DUE TO LOSS OF AIRCRAFT		
		32SP 5002038	MANOON	STAT			
78 060821ZJAN99		1	AGCON 1	UNIT MOVE	COMMENCING MOVEMENT		
1		1	AGCON 1	LINIT DESENDING MISSION	IS ENGAGED	INF A/P	
Н		1	AGCON 1	7	HAS INITIATED ENGACEMENT		
060821ZJAN99	INF_H/B 328	32SPF729830	MANCON_3	$\overline{}$	HAS INITIATED ENGAGEMENT	INF FOR	
060821ZJAN99		l i	MANCON 3	Т	HAS INTIATED ENGAGEMENT	AGGID	
783 UBU821 ZJAN99		- 1	MANCON 4	ENGAGEMENT STATUS CHANGE	HAS INITIATED ENGAGEMENT	ARTYI	
0608212.IAN99	AGSUP	32SPF 728530	AGCON 1		COMMENCING MOVEMENT		
		-1	AGCON 1	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	3 INF_H/B	32SPF728830
060821ZJAN99		т			DETECTION IS A COMPANY SIZED INFANTRY UNIT	3 INF H/B	32SPF728830
080821ZJAN99	AGSUP 328				DETECTION IS A COMPANY SIZED INFANTRY UNIT	3 INF H/B	32SPF728830
060821ZJAN99		l. I	AGCON_1		DETECTION IS A COMPANY SIZED INFANTRY UNIT	F Z	325PT / 28830
791 INSURATE AND A	AGSUP AGSUD	32SPF728830		VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT		32SPF728830
060821ZJAN99			AGCON 1		DETECTION IS A COMPANY SIZED INFANTRY UNIT	3 INF_H/B	32SPF728830
060821ZJAN99		32SPF721993	MANCON 1		HAVE DETECTED COMPANY SIZED INFANIRY UNIT	3 INF H/B	32SPF728830
060821ZJAN99			MANCON_1			D COVERS	32SPG729013
795 0608212JAN99	328 50F					Ī	32SPG729013
0608212JAN99		325PF /21993	MANCON 1		HAVE DETECTED COMPANY SIZED LIGHT ARMOR UNIT	5 LDVEH3	32SPG729013
_		Т			HAVE DETECTED COMPANY SIZED LIGHT ARMOR UNIT	5 LDVEH3	32SPG729013
060821ZJAN99		Т			DETECTION LIVE BEEN TEMPORARY SIZED LIGHT ARMOR UNIT	5 LDVEH3	32SPG729013
080821ZJAN99	INF_H/P 328		4	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	AH-HP	32SPF704553
060821ZJAN99		1	*			I	32SPG737184
\neg	SILK1 328	- 1	MANCON 4				1
060821ZJAN99		- [F,WANCON_1		AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT		-
060621ZJAN99	URPLE	32SPF784918	MANCON 4	ASSESSMENT REPORT	UNDER ALTACK AIR TO SUBFACE DCASA		
060821ZJAN99					AIR TO SURFACE PCAS4	ARIYI	
060821ZJAN99		П			AIR TO SURFACE PCAS4	ARTY	
ı		Т			COMMENCING MOVEMENT		
080821ZJAN99		32SPG815050	MANOON	ONIT DESTINATION	HAVE REACHED ASSIGNED DESTINATION		
060821ZJAN99			3		HAVE DETECTED STD ICTUDE		32SPG815050
			3	OBJECT DETECT	HAVE DETECTED STRUCTURE		32SPG804064
060821ZJAN99		32SPG615050 P			HAVE DETECTED A SHIP	7 084	323PG620031
	AGSUP 328	- 1			DETECTION HAS BEEN TEMPORARILY LOST	3 INF HB	32SPF967831
DEDRO17.IANGO		Т			DETECTION HAS BEEN TEMPORARILY LOST	3 INF H/B	32SPF967831
060821ZJAN99		32SPF728830	AGCON 1		DETECTION HAS BEEN TEMPORARILY LOST	3 INF_H/B	32SPF967831
1	AGSUP 32S	Г			DETECTION HAS BEEN TEMPORARILY LOST	3 INF H/B	32SPF967831
060821ZJAN99		1			DETECTION HAS BEEN TEMPORARII VIOST	NF H/B	32SPF967831
0608212JAN99	AGSUP 32S	li	AGCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST		32SPF967831
T		32SPF728830			DETECTION HAS BEEN TEMPORARILY LOST		32SPF967831
0608212JAN99		İ			DETECTION HAS BEEN TEMPORARILY LOST	3 INF_H/B	32SPF967832
060821ZJAN99				VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	3 INF_H/B	32SPF967632
1	AGAIR 32SI	H			DETECTION HAS BEEN TEMPORARILY LOST	NE LOS	32SPF967832
0606212JAN89		- 1	AGCON_1		DETECTION HAS BEEN TEMPORARILY LOST	NF HB	32SPF967832
828 0808217.IAN99		32SPF 728830 A		VISUAL DETECT STATUS D	DETECTION HAS BEEN TEMPORARILY LOST	3 INF H/B	32SPF967832
					DETECTION HAS BEEN TEMPORARILY LOST	3 INF H/B	32SPF967832

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762			L							060820Z.IAN99
763										
764	SU-24-FENCER		0	-	0	0				
765	SU-24-FENCER			1	0	0				
767 ENEMY DESTROYED		-	1							
788			1							
769	TROOPS	_				-				
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Ξ	INF H/B	AGAIR	ACAIR	10000	-		2000	BOGEYS		NF_H/B	INF H/B	AGAIR	AGAIR	NE HA	A COLID	NE LIG	2000	AGAIR AGAIR	NF AB	AGSOF	IN- H/B	AGAIR	INF_AB	INF, A/B	AGAIR			INF_A/P	AAAVIP	FR0G2	FROG2	INF_H/P		VMV_PURPLE		FROG2		SMC	SOUTH THE PERSON	AGAID4	ASIAM						INF_A/P	SMC	VMV_PURPLE	VMV PURPLE	INF HOP	IN- AP		•		FROGS		INF A/P			FROG4			BOGEYS	AGAIR1	ã	1	
g	9	S.	0 4	,			ē	5																				7	4	4	-	7	2	80	80	2	7	2			ã							9	2	2	,	•	0		-			6	8	8	8	80						
Ŀ	SECTION HAS BEEN TEMPORARILY LOST	DETECTION HAS BEEN TEMPORARILY LOST	TECTION HAS BEEN TEMPORARIEVIORT	R MISSION HAS REACHED ORBIT POINT	RISSION HAS REACHED FINAL LAND POINT		TOACK DETECTED	A INACA DELECTED	AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR	IS ENGAGED	S TERMINATED ENGAGEMENT, NO LOS	S TERMINATED ENGAGEMENT, NO LOS	IS TERMINATED ENGAGEMENT, NO LOS	S TERMINATED ENGAGEMENT, NO LOS	S TERMINATED ENGAGEMENT, NO LOS	HAS TERMINATED ENGAGEMENT NO LOS	Initial annacement	lai encacement	India organismi.	in organization.	Control of the forest	Cumulauve losses:	mulative losses:	Incremental losses:	Incremental tosses:	R MISSION HAS LAUNCHED	UISE MISSILE HAS LAUNCHED	TECTION HAS BEEN LOST	TECTION HAS BEEN LOST	TECTION HAS BEEN LOST	TECTION HAS BEEN LOST	TECTION HAS BEEN LOST	TECTION HAS BEEN LOST	TECTION HAS BEEN LOST	TECTION HAS BEEN LOST	TECTION HAS BEEN LOST	TECTION HAS BEEN LOS!	AIR MISSION HAS BEACHED AID TO AID I ATINGH BOTHT	TO AIR GCAP3	TO AIR GCAP3	AIR TRACK DETECTED	MISSION HAS REACHED FINAL LAND POINT		CRUISE MISSILE HAS REACHED ATTACK POINT	DER AIR ATTACK	AIR_TO_SURFACE Msn# ASW8	NGAGED	VE DETECTED A SHIP	VE DETECTED SQUADRON SIZED AVIATION UNIT	AE DETECTED SQUADRON SIZED AVIATION UNIT	JE DETECTED COMPANY SIZED INCANTRY UNIT	JE DETECTED A SHIP	HAVE DETECTED SECTION SIZED ARTHURBY LINIT	VE DETECTED SECTION SIZED ARTILLERY LINIT	JE DETECTED SECTION SIZED ARTH FRY HAIT	VE DETECTED SECTION SIZED ARTILLERY UNIT	/E DETECTED SECTION SIZED ARTILLERY UNIT	IECTION HAS BEEN TEMPORARILY LOST	FECTION HAS BEEN TEMPORARILY LOST	FECTION HAS BEEN TEMPORARILY LOST	TECTION HAS BEEN TEMPORARILY LOST	DETECTION HAS BEEN TEMPORARILY LOST	MISSION HAS REACHED AIR TO AIR LAUNCH POINT	AIR TO AIR GCAP3	IO AIR GCAP3	MINATING ENGAGEMENT WITH TRACK	MISSION CANCELED IN IF TO LOSS OF AIRCRAFT	שומפוסו כשיירות הכני זכ ניכרי כו שייכולי י
		VISUAL DETECT STATUS	i						AIR MSN ILLUMINALEU	ENGAGEMENT STATUS CHANGE	ENGAGEMENT STATUS CHANGE	ENGAGEMENT STATUS CHANGE	ENGAGEMENT STATUS CHANGE	ENGAGEMENT STATUS CHANGE	ENGAGEMENT STATUS CHANGE	ENGAGEMENT STATUS CHANGE	REPORT	REPORT	REPORT													İ		1		ļ		AIR RTE POINT		ASSESSMENT REPORT		AIR RTE POINT	AIRCRAFT STAT	AIR RTE POINT	STATUS CHANGE	ASSESSMENT REPORT A	ENGAGEMENT STATUS CHANGE IS	VISUAL DETECT	VISUAL DETECT	VISUAL DETECT	VISUAL DETECT	VISUAL DETECT	VISUAL DETECT	VISUAL DETECT	VISUAL DETECT	VISUAL DETECT	VISUAL DETECT						ARK RIE POINI					AIR MSN CANA
2	Macole 1	MANCON 3	MANCON_3	MANCON 2	MANCON_1	MANCON 1	MANCON 4	ACCOM 4	ACCOM 4	AGCON	AGCON 1	WANCON_3	MANCON 3	AGCON_1	MANCON_3	AGCON 1	AGCON 1.MANCON 3	AGCON 1.MANCON 3	AGCON 1.MANCON 3	AGCON 1 MANCON 3	AGCON 1 MANCON 3	AGCON 1 MANCON 3	ACCON 1 HANCON 3	AGCON LIMANCON 3	AGCON THANKON 3	AGCON 1	MANCON 2	AGCON 1	AGCON 1	MANCON 4	MANCON 4	AGCON 1	MANCON 4	AGCON 1	AGCON	MANCON 4	AGCON 1	MANCON 2	MANCON 2			NCON_1	NCON 1			2					AGCON 1							GCON_1	AANCON 4	AANCON 4	AANCON 4	MANCON 4	MANCON 2	GCON 1	ANOON S	MANCON_2		GCON 1
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893	SIL24-FENCER		-	-	1	-	0				
894	SU-24-FENCER		0	0	-	0	0				
895 ENEMY DESTROYED											
896											
897			1	┨					0	0 2	

Control Cont		•			L		
Page 15 Page	П	32SPF962990		AIR TRK DATA	AIR TRACK DETECTED	2008	
The color	Т	32SPF758747	- 1	AIR MSN ILLUMINATED	AIR MISSION ILLUMINATED BY NON-SAME SIDE RADAR		11001 1000
Poster Statement March	1	32SQF030799	- 1	SHIP MOVE	COMMENCING MOVEMENT		
1,0,0,0,0 1,0,0,0,0 1,0,0,0,0,0,0 1,0,0,0,0 1,0,0,0,0,0 1,0,0,0,0,0 1,0,0,0,0,0 1,0,0,0,0,0 1,0,0,0,0,0 1,0,0,0,0,0 1,0,0,0,0,0 1,0,0,0,0,0,0,0 1,0,0,0,0,0,0 1,0,0,0,0,0,0 1,0,0,0,0,0,0,0,0 1,0,0,0,0,0,0,0,0,0 1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	1 [32SPF828955	MANCON 4.N	AIR WPN LNCH	ARE MISSION HAS REACHED STAND OFF WEADON I ALMON DOING		
100 100	_ [32SPG733010	AGCON_1		UNDER AIR ATTACK		
100-1019 100-1019	_ _	32SPG733010	7		AIR_TO_SURFACE PCASS	LDVEH3	
100-100-100-100-100-100-100-100-100-100	1.	32SPG733010	T		AIR_TO_SURFACE PCASS	LDVEH3	
Lincote	١.	32SPG733010	Т		AIR TO SUBSTANT TO	LDVEH3	
10.0610 SEPTIMEN MACON MATERIAL M		32SPG733010	1		AID TO SUBSACE POASE	LDVEH3	
1974 1975		32SPG733010	_		AR TO SUBFACE DOASE	LDVEH3	
		32SPF962990	MANCON_4		SURFACE TRACK DETECTED		
The color		32SPF728830	AGCON_1		HAS ASSUMED WITHDRAW MISSION IN IE TO ODD IN 18200-0 17000	J	325QF030799
1997 1997		32SPF523741	AGCON_1	ENGAGEMENT STATUS CHANGE	HAS TERMINATED ENGAGEMENT NO LOS		
100 100	Т	32SPF764943	MANCON 4	ENGAGEMENT STATUS CHANGE	HAS TERMINATED ENGAGEMENT, NO LOS	FDOG4	
100-05 1	ΤТ	32SPF728830	AGCON_1	UNIT MOVE	COMMENCING MOVEMENT	100	
100-05-05 100	Т	32SPF720892	WANCON 1		DETECTION HAS BEEN TEMPORARILY LOST	3 LDVEH2	32SPF889525
9.0F SERFINERA MANCHAL VIGARIA (STATION) CONTRICTOR (STATION) CONTRICTOR (STATION) CONTRICTOR (STATION) DESCRIPTION DE	\top	325FF (20882	MANCON 1		DETECTION HAS BEEN TEMPORARILY LOST	3 LDVEH2	32SPF889525
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SOFT STEPPENSON MANCON VINTAL DEFECT STATUS VINTAL DEFECT ST	Г	32SPF720992	MANCON 1		DETECTION HAS BEEN TEMPORARILY LOST	3 LDVEH2	32SPF889525
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AGAIR 325PF72823 AGCON, 1 VISUAL DETECT HAVE DETECTED COMPANY SIZED MEDICAL UNIT 5 MEDB AGAIR 325PF72823 AGCON, 1 VISUAL DETECT HAVE DETECTED COMPANY SIZED MEDICAL UNIT 5 MEDB AGAIR 325PF72823 AGCON, 1 VISUAL DETECT HAVE DETECTED COMPANY SIZED MEDICAL UNIT 5 MEDB AGAIR 325PF728629 AGCON, 1 VISUAL DETECT HAVE DETECTED COMPANY SIZED MEDICAL UNIT 5 MEDB AGAIR 325PF728629 AGCON, 1 VISUAL DETECT HAVE DETECTED COMPANY SIZED MEDICAL UNIT 5 MEDB SOF 325PF728629 AGCON, 1 VISUAL DETECT HAVE DETECTED COMPANY SIZED MEDICAL UNIT 5 MEDB ENG 325PF728629 MANICON, 1 OBJECT DETECT HAVE DETECTED SIRLOCTURE MEDB 5 MEDB ENG 325PF0312049 MANICON, 1 VISUAL DETECT HAVE DETECTED SIRLOCTURE MANICON, 1 VISUAL DETECT HAVE DETECTED SIRLOCTURE AGAIR ENG 325PF0312049 MANICON, 1 VISUAL DETECT HAVE DETECTED SIRLOCTURE <td>Т</td> <td>30021 1020</td> <td>AGCON 1</td> <td></td> <td>HAVE DETECTED COMPANY SIZED MEDICAL UNIT</td> <td></td> <td>32SPF728829</td>	Т	30021 1020	AGCON 1		HAVE DETECTED COMPANY SIZED MEDICAL UNIT		32SPF728829
AGAIR 328P7728829 AGCON 1 VISUAL DETECT TAVE DETECTED COMPANY SIZED MEDICAL UNIT 5 MED/B AGAIR 328P7728829 AGCON 1 VISUAL DETECT HAVE DETECTED COMPANY SIZED MEDICAL UNIT 5 MED/B AGAIR 328P7728829 AGCON 1 VISUAL DETECT HAVE DETECTED COMPANY SIZED MEDICAL UNIT 5 MED/B AGAIR 328P7728829 AGCON 1 VISUAL DETECT HAVE DETECTED COMPANY SIZED MEDICAL UNIT 5 MED/B SOF 328P772882 AGCON 1 VISUAL DETECT HAVE DETECTED COMPANY SIZED MEDICAL UNIT 6 MED/B SOF 328P772882 AGCON 1 VISUAL DETECT HAVE DETECTED COMPANY SIZED MEDICAL UNIT 6 MED/B ENG 328PG-B12048 MANICON 1 OBJECT DETECT HAVE DETECTED SITUAL PROBLEM 6 MED/B MED/B PBI ENG 328PG-B12048 MANICON 1 VISUAL DETECT HAVE DETECTED SILVENCY 8 PBI MED/B 328PG-B12048 MANICON 2 VISUAL DETECT HAVE DETECTED SILVENCY ONIT 8 PBI <	Г	32SPF728829	AGCON 1		HAVE DETECTED COMPANY SIZED MEDICAL UNIT	5 MED/B	32SPF728829
AGARR 328F772862 AGCON 1 VISUAL DETECT TAVE DETECTED COMPANY SIZED MEDICAL UNIT 5 MEDB AGARR 328F772862 AGCON 1 VISUAL DETECT HAVE DETECTED COMPANY SIZED MEDICAL UNIT 5 MEDB AGARR 328F772862 AGCON 1 VISUAL DETECT HAVE DETECTED COMPANY SIZED MEDICAL UNIT 5 MEDB SOF 328F772862 AGCON 1 VISUAL DETECT HAVE DETECTED COMPANY SIZED MEDICAL UNIT 5 MEDB SOF 328F0412049 MANICON 1 OBJECT DETECT HAVE DETECTED SIRLOR MEDICAL UNIT 5 MEDB ENG 328F0412049 MANICON 1 OBJECT DETECT HAVE DETECTED SIRLOLURE AGAIR BBI ENG 328F0412049 MANICON 1 VISUAL DETECT HAVE DETECTED SIRLOLURE BBI MEDB 328F0410402 MANICON 1 VISUAL DETECT HAVE DETECTED SIRLOLURE BBI MEDB 328F0410402 MANICON 1 VISUAL DETECT HAVE DETECTED SILPALATION UNIT 2 AGAIR MEDB 328F0710042 MANICON 3 VI	Т	32SPF728629	AGCON 1		HAVE DETECTED COMPANY SIZED MEDICAL UNIT	5 MED/B	32SPF728829
AGAIR 328PF728629 AGCON 1 VISUAL DETECT MAKE MEDIE MEDIE MEDIE AGAIR 328PF728629 AGCON 1 VISUAL DETECT HAVE DETECTED COMPANY SIZED MEDICAL UNIT 5 MEDIB AGAIR 328PF728629 AMACON 1 VISUAL DETECT HAVE DETECTED SOMPONEL MINITOR 5 MEDIB ENG 328PG812049 MANCON 1 OBJECT DETECT HAVE DETECTED STRUCTURE MANCON 1 MEDIB ENG 328PG812049 MANCON 1 OBJECT DETECT HAVE DETECTED STRUCTURE PRIOR ENG 328PG812049 MANCON 1 VISUAL DETECT HAVE DETECTED STRUCTURE AGAIR ENG 328PG812049 MANCON 1 VISUAL DETECT HAVE DETECTED STRUCTURE AGAIR MEDIB 328PF730429 MANCON 1 VISUAL DETECT HAVE DETECTED STRUCTURE 8 PBI MEDIB 328PF730429 MANCON 3 VISUAL DETECT HAVE DETECTED SOUNDRON SIZED AVIATION UNIT 2 AGAIR MEDIB 328PF730429 MANCON 3 VISUAL DETECT HAVE DETECTED SOUNDRON SIZ	Г	32SPF728629	AGCON 1		TAVE DETECTED COMPANY SIZED MEDICAL UNIT	5 MED/B	32SPF728829
AGAIR 328PF72882 AGCON_1 VISUAL DETECT HAVE DETECTED COMPANY SIZED MEDICAL UNIT 5 MEDB SOF 328PF72882 MANCON_1 OBJECT DETECT HAVE DETECTED BRIDGE NREDB ENG 328PF318246 MANCON_1 OBJECT DETECT HAVE DETECTED STRUCTURE MEDB ENG 328PG812046 MANCON_1 OBJECT DETECT HAVE DETECTED STRUCTURE PB1 ENG 328PG812046 MANCON_1 OBJECT DETECT HAVE DETECTED STRUCTURE PB1 MEDB 328PF730248 MANCON_1 VISUAL, DETECT HAVE DETECTED STRUCTURE 8 MEDB 328PF73028 MANCON_2 VISUAL, DETECT HAVE DETECTED STRUCTURE 8 MEDB 328PF73028 MANCON_3 VISUAL, DETECT HAVE DETECTED SQUADRON SIZED AVIATION UNIT 2 MEDB 328PF73028 MANCON_3 VISUAL, DETECT HAVE DETECTED SQUADRON SIZED AVIATION UNIT 2 MEDB 328PF73028 MANCON_3 VISUAL, DETECT HAVE DETECTED SQUADRON SIZED AVIATION UNIT AGAIR AGRIF AGRIF AGRI	П	32SPF728829	AGCON 1		TAVE DETECTED COMPANY SIZED MEDICAL UNIT		32SPF728629
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1044 060827ZJAN99		32SPF962990	MANCON 4	AIR IRK DATA		BQGC		32SPG867109
1045 060827ZJAN99	ı	32SPG901122	MANCON 1	AID DTE DOINT			GCAP9 3;	2SPG830102
1046 060827ZJAN99	FCAS4	32SPG901122	MANCON 1	AIRCRAFT STAT	AIR MISSION HAS REACHED FINAL LAND POINT			
1047 060827ZJAN99		32SPG712128	MANCON 2	AIR RTE POINT	AIR MISSION HAS BEACHED OPBIT DOINT			
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1049 080827ZJAN99	_	32SPF625617	AGCON_1	AIR MSN LAUNCH	AIR MISSION HAS I AVINCHED			
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1053 U6082/2JAN99	Т	32SPF962990	MANCON 4	AIR TRK DATA		TO		
1054 0606272JAN89	GCAP6	32SPG652088	MANCON 2	AIR RTE POINT		T		SQG08/023
1059 0000212JAN99	Т	32SPG654058	MANCON 2	AIR RTE POINT	AIR MISSION HAS REACHED ORBIT POINT		1	
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1060 0808277, JAN99	1	325PG62404	ACCON 1	VISUAL DETECT	HAVE DETECTED COMPANY SIZED ENGINEER UNIT	2 ENG		32SPG814045
1081 080827ZJAN99	SILK	32SPG824041	AGCON 1	VISUAL DETECT	HAVE DETECTED COMPANY SIZED ENGINEER UNIT	2 ENG		32SPG814045
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1063 060627ZJAN99	1	32SPG824041	AGCON 1	VISUAL DE IECT	HAVE DETECTED COMPANY SIZED ENGINEER UNIT	2 ENG		32SPG814045
1084 060827ZJAN99	SILK4	32SPG824041	AGCON 1	Wellar Detect	HAVE DETECTED COMPANY SIZED ENGINEER UNIT	2 ENG		32SPG814045
1065 060827ZJAN99		32SPG824041	AGCON 1	VISUAL DETECT	HAVE DETECTED COMPANY SIZED INFANTRY UNIT	3 INF	INF_H/B 32	32SPG821046
1086 060827ZJAN99		32SPF780981	AGCON 1		HAVE DETECTED COMPANY SIZED INFANTRY UNIT	3 INF		32SPG821046
1067 060827ZJAN99	ENG	32SPG612048	MANCON 1		MANE DETECTED COMPANY SIZED INFANTRY UNIT		d	32SPF776955
1068 0608272JAN99	ENG	32SPG812046	MANCON 1		HAVE DETECTED SECTION SIZED ARTITLERY UNIT	SILK4		32SPG823042
1069 060827ZJAN99	INF_H/B	32SPG819046	MANCON 3		HAVE DETECTED SECTION SIZED ARTHUR EDVINIT	SIC		32SPG823042
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10/1 06062/2JAN99	AGSUP	32SPF727830	AGCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	MEDIA		32SPG823043
1072 DR08272 JANGO	Т	32SPF727830	AGCON 1		DETECTION HAS BEEN TEMPORARILY LOST			325GF067829
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1075 060827ZJAN99	Т	325FF127830	AGCON 1		DETECTION HAS BEEN TEMPORARILY LOST	WE.		32SQF067829
1076 060827ZJAN99	AGSUP	32SPF727830	ACCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	MED/B		32SQF067829
1077 060827ZJAN99	AGSUP	32SPF727830	AGCON 1	WISHALDETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST			32SQF067829
1078 060827ZJAN99	AGSUP	32SPF727830.	AGCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST			32SQF067829
1079 060827ZJAN99	AGSUP	32SPF727830	AGCON 1		DETECTION HAS BEEN TEMPORARILY LOST	MED/B		32SQF067829
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1085 060827ZJAN99	AGAIR	32SPF / 26829	AGCON 1		DETECTION HAS BEEN TEMPORARILY LOST 5	MED/B		SQF08849
1086 060827ZJAN99	AGAIR		AGCON 4		DETECTION HAS BEEN TEMPORARILY LOST	MED/8		32SQF068849
1087 080827ZJAN89	AGAIR	1	AGCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	MEC		32SQF068849
		1 1	AGCON_1		DETECTION HAS BEEN TEMPORABLY LOST	MED/B		32SQF068849
1089 0606272JAN99	AGAIR	32SPF726629	AGCON 1		DETECTION HAS BEEN TEMPORARILY LOST	MEDIB		32SQF068849
1090 0006212JAN99			AGCON 1		DETECTION HAS BEEN TEMPORARILY LOST			3250F068849
1092 060827Z.IAN99	MEDIA	325F GWOI 121	MANCON 3					PG562100
1093 060827ZJAN99	MEDIA		MANCON 3	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	AGAIR		32SPG582100
1094 060828ZJAN99	GCAP8	32SPG678089	MANCON 2		DETECTION HAS BEEN TEMPORARILY LOST	AGSUP		32SPG561120
1095 060828ZJAN99	GROUND_ENGAGEMENT 5	32SPG901121	AGCON 1, MANCON 3		Initial engagement			
1096 060828ZJAN99	GROUND_ENGAGEMENT 5	32SPG901121	AGCON_1,MANCON_3	REPORT	Initial and ananti-	AGAIR	ا م	
1097 060828ZJAN99	GROUND ENGAGEMENT 5	32SPG901121	AGCON 1, MANCON 3	REPORT	Inklial engagement:	N S	2 A	
1099 0608287.JAN99	GROUND ENGAGEMENT 5	32SPG901121	AGCON 1, MANCON 3	REPORT	Initial engagement:	MED/B	5 00	
060826ZJAN99	GROUND ENGAGEMENT 5	32SPG901121	ACCON 1 MANCON 3	REPORT	Cumulative losses:	AGAIR	Ex.	
060828ZJAN99	GROUND ENGAGEMENT 5	32SPG901121	AGCON 1, MANCON 3	REPORT	Cumulative tosses:	INF A/B	NB VB	
060828ZJAN99	GROUND_ENGAGEMENT 5	32SPG901121	AGCON_1,MANCON_3	REPORT	Curturality forses:	AGS	۵,	
1103 0606262JAN99	GROUND ENGAGEMENT 5	32SPG901121	AGCON 1,MANCON 3	REPORT	Incremental losses:	INF A/P	9	
000000000000000000000000000000000000000	CHOOKE CHOOKEMEN 3	325FG901121	AGCON 1, MANGON 3	REPORT	Incremental losses:	AGAIR	-	

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1036		-	_	_						
1037	TROOPS		21 0	0						
1038	PC-BOAT									
1039	TROOPS			0						
	PC-BOAT									
1041	TROOPS	+	21 9		0	0				
1043 FRIENDI V	Y COO	†								
1044 FRIENDLY		+	+							
1045										
1048			H						0 0	
1047										
1040			+							
1050			+							
1051 SUSPECT			-							
1052										
1053 FRIENDLY										
1054			+							
1058			+							
1057		1	+							
1058	5.0-TRUCK	67								
1059	MCLIC	_								
1080	ACE	4								
1061	HMMMV	0								
7001	SEE	2	+							
COOL	TEOOPS	20 6	+							
1065	SMAW	9	+							
1088	TROOPS	182		L						
1067	D-20	2	Н							
1088	TROOPS	8								
	D-20	7	+							
	TRAILER-WATER-300G	6	+							
	5.0-TRUCK	-	-							
	HMMWV-AMBUL	6	-							
	HMMWV	6								
	TROOPS	8	+							
	ATALIS	7 6	1							
	M-18	218	<u> </u>							
	M240-MG	-	+							
	.50CAL-MG	-								
	TRAILER-WATER-300G	6								ļ
	5.0-TRUCK	e .	+							
	HMMWV-AMBUL	9 6	-							
	TROOPS	200	+							
	SAW	2								
	AT4-US	2								
	M-18	218	-							
	M240-MG	-	-							
	TEOCAL-MG	100	+							
	M-f8	215	1							
	TROOPS	157	-							
1094			1							
1095										060814ZJAN99
1090										060814ZJAN99
1098		+								060816ZJAN99
1099	TROOPS		178 10	, 0	0	0				RANKTZCZOGO
1100	TROOPS		1							
1101	TROOPS	+								
1103	TROOPS	\dagger								
SALL SALL SALL SALL SALL SALL SALL SALL	20000	+	١				_	-		

Α	8		٥	E	L	±	
1108 0808287.IAN99	GROUND ENGAGEMENT &	32SPG901121	AGCON 1,MANCON 3	REPORT	Incremental losses:	MED/B	
1107 060828Z JAN99	AGSUP		AGCON 1, MANCON 3	REPORT	Incremental tosses:	AGSUP	
	MFD/B	12500001121	- 1	ENGAGEMENT STATUS CHANGE	HAS TERMINATED ENGAGEMENT, NO LOS	MED/8	
1109 060828ZJAN99	AGAIR	12SDE728820	1	ENGAGEMENT STATUS CHANGE	HAS TERMINATED ENGAGEMENT, NO LOS	AGSUP	
	MED/B	32SPG901121	- 1	ENGAGEMENT STATUS CHANGE	HAS TERMINATED ENGAGEMENT, NO LOS	MED/B	
1111 060828ZJAN99		32SPF728829	T	INCAGEMENT STATUS CHANGE	HAS TERMINATED ENGAGEMENT, NO LOS	AGAIR	
1112 060828ZJAN99		32SPG824041	Т	TIMIT OCCEPTOR MISSION	NOT ENOUGH TROOPS FOR MOVEMENT		
1113 060828ZJAN99		32SPG812048	Т	ENGACEMENT STATES CHANCE	TAS ASSUMED WITHDRAW MISSION DUE TO CPR (0.00000<=0.17000)		
1114 060828ZJAN99	SILK4	32SPG824041	AGCON 4	LINGAGEMENT STATES CHANGE	HAS INITIATED ENGAGEMENT	SILK4	
1115 060828ZJAN99	INF HVB	32SPGR10048	MANCON 3	GNO A DESCRIPTION OF THE PERSO	OWING REQUIREMENTS NOT MET		
1116 060828ZJAN99	INF A/P	12SDE775053	MANCON 4	ENGAGEMENI SIAIUS CHANGE	HAS INITIATED ENGAGEMENT	SILK4	
1117 OBOR287 IANGO		300000000000000000000000000000000000000	MANCON	ENGAGEMENT STATUS CHANGE	HAS INITIATED ENGAGEMENT	TANK2	
1118 OBOR2R7.1ANGO		325FG801122	MANCON 4, MANCON 1	AIR MSN LAUNCH	AIR MISSION HAS LAUNCHED		
1110 DECENTION 11100		325011359/6	- 1	AIR RTE POINT	CRUISE MISSILE HAS REACHED ATTACK POINT		
		32SQF135976	\neg	STATUS CHANGE	UNDER AIR ATTACK		
1120 060828ZJAN99	FFG	32SQF135976		ASSESSMENT REPORT	AIR TO SURFACE ASIMB	60100	
		32SQF135976		ASSESSMENT REPORT	AIR TO SURFACE ASMA	Sano	
1122 060828ZJAN99		32SPG901122	MANCON_3	AIR RTE POINT	AIR MISSION HAS REACHED FINAL LAND BOLKT	2083	
1123 060828ZJAN99		32SPG901122		AIRCRAFT STAT			
1124 060828ZJAN99		32SPG677059		AIR RTE POINT	AIR MISSION HAS REACHED OBRIT DOINT		
1125 060828ZJAN99		32SPG656031		AIR RTE POINT	AIR MISSION HAS REACHED OPRIT DOINT		
1126 060528ZJAN99	BCAS12	32SPF781995	MANCON_3	AIR RTE POINT	AIR MISSION HAS REACHED ATTACK POINT		
060828ZJAN89	VF_BLUE	31NAA661000	MANCON 3	ASSESSMENT REPORT	AIR TO SURFACE REASTS	44 4040	
	VF_BLUE	31NAA661000	MANCON 3		AIR TO SUBEACE BOACES	WESTRD	
060828ZJAN89	INF_AB	31NAA661000	MANCON 3		AIR TO SUBFACE BOACKS	NOKIH KO	
060828ZJAN99	INF_A/B	31NAA661000	MANCON 3		AID TO GIBEACE BCASA	WESTRD	
080828ZJAN99	LHA	32SPF962890	MANCON 4			1	
	LHA	32SPF962990	MANCON 4				32SPG653065
060828ZJAN99	BOGEY7	32SPF743785	AGCON 1			BV BOGEY7	32SPF743785
1134 060828ZJAN99	FROGS	32SPF524723	AGCON 1	-	DETECTION LECOMINATION OF A MAIN SIDE RADAR		_
080828ZJAN99	FROGS	32SPF524723	AGCON 1			VMV_PURPLE	\neg
	FROGS	32SPF524723	AGCON 1	Ī	DETECTION HAS BEEN TEMPORABLY LOST	İ	-+
060828ZJAN99	FROGS	32SPF524723	AGCON_1			NI HID	32SPF877574
- 1	VMV_PURPLE	32SPF844929	MANCON_4	VISUAL DETECT STATUS			32SPF879563
US0828ZJAN89	VMV_PURPLE	32SPF844929	MANCON_4		DETECTION HAS BEEN TEMPORARILY LOST	2000	32376506106
USUSZSZJANSS	(NF HIP	32SPF643933	MANCON 4		DETECTION HAS BEEN TEMPORARILY LOST	EDOR!	32500400000
1	HAP-	32SPF843933	MANCON 4	TATUS	DETECTION HAS BEEN TEMPORARILY LOST	FROGS	32500490000
SENIAL POCOCO	PCASS	32SPG901122	MANCON 4, MANCON 1	UNCH	AIR MISSION HAS LAUNCHED		20000
COCCESCAMES	9000	325QF135976	AGCON 1		UNABLE TO MOVE - SHIP DAMAGED		
DROR297 IANDO	25.00	32577802890	MANCON 4			BW PCASS	32SPG853082
DROROS IANDO		325FF585807	AGCON 1		DETECTION HAS BEEN LOST		32SPE568785
DROR297 IANOG	EBOCA .	325PF/75853	MANCON 4				32SPF803995
1148 DRUR207 IANISO	•	32SPF523741	AGCON 1	VISUAL DETECT STATUS			32SPE583753
DRORPOZ JANGO		32577602861	AGCON 1		DETECTION HAS BEEN TEMPORARILY LOST	SMC	32SPG785070
OROR207 IANOO	NE AD	32SFF / /3853	MANCON 4			TANK	32SPG807447
		32SFF/75953	MANCON 4		DETECTION HAS BEEN TEMPORARILY LOST		32SPG807147
0608297.IAN99		323PF367889	AGCON 1	TATUS	DETECTION HAS BEEN TEMPORARILY LOST	INF A/P	32SPF556694
060829ZJAN99		125DER25847	ACCON 1		AIR MISSION HAS LAUNCHED		
060829ZJAN99		325FF023017	ACCON 1		AIR MISSION HAS REACHED FINAL LAND POINT		
1	BCAS12	32SPG901122	MANCON 3				
080829ZJAN99		1	MANCON 3		AIR MISSION HAS REACHED FINAL LAND POINT		
060829ZJAN99		32SPG663123	MANCON 2	AIR RTE POINT	AID DISSION DAS DEACHED AID TO AID I DISSION DE		
158 060829ZJAN99	X.		MANCON 2	Tand	AIR TO AID COADS		
060629ZJAN99	3EY7	32SPF885850	AGCON 1	ASSESSMENT DEPORT	NO TO AIR GCAP1	BOGEY7	
060830ZJAN99		32SPG901122	MANCON 3		AIR ICART	AGAIR1	
060830ZJAN99		32SPG824041	AGCON 1	ATHIS CHANGE	S ENDAGED		
060830ZJAN89		32SPG624041	AGCON_1	1	IS ENGAGED	ENG INC 130	
060830ZJAN99	TX.	32SPG824041	AGCON_1		IAS REACHED EFFECTIVE CASUALTY LIMIT	0017	
DECESSORATION OF THE PROPERTY	SILNA	32SPG824041	AGCON 1		JNIT IS NO LONGER COMBAT EFFECTIVE		
Т		32SPG824041	MANCON 1	ENGAGEMENT STATUS CHANGE	S DESTROYED, TERMINATING ENGAGEMENT	ENG	
060830ZJAN99		32SPG824041	AGCON 1		HAS TERMINATED ENGAGEMENT	SILK4	
060630ZJAN99		۔ا	MANCON 3		IS DESTROYED, TERMINATING ENGAGEMENT	NF 1/B	
060830ZJAN99	GROUND_ENGAGEMENT 7		AGCON 1.MANCON 1.MANCON 3	REPORT	IND IERMINATED ENGAGEMENT	SILK	
	GROUND_ENGAGEMENT 7		AGCON_1,MANCON_1,MANCON_3		initial engagement:	SILKA	
71 060830ZJAN99	GROUND ENGAGEMENT 7	32SPG819048	AGCON_1,MANCON_1,MANCON_3		nklaj engagement:	ENG INC 140	
	GROUND_ENGAGEMENT 7 :	32SPG819048	AGCON_1,MANCON_1,MANCON_3		Cumulative losses:	INF PUB	
	GROUND ENGAGEMENT 7	32SPG819048	AGCON 1, MANCON 1, MANCON 3	REPORT	ncemental losses:	SILK	
						SILNS	

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SUMMARINE	111			-						
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CE_PRODICT		CE_PRODUCT		0	0					
WV.2PS		CE PRODUCT		0	0					
MV22		CE PRODUCT		0	0					
MACE 24				+	•					
MV-22 24	TOP TOP TOP			+						
WV-22 24	200115			+						
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TROOPS		ROOPS	707	+						
FROOF-SSM		recops	181	+						
FROOPS		AAAV								
FROOPS		FROG-7-SSM	-	+						
FROGFS		TROOPS	7		-					
TROOPS		FROG-7-SSM	-							
D-20		TROOPS	•							
TROOPS										
P.20 P.20	143									
TROOPS	144 FRIENDLY					-				
TROOPS	145									
TROOPS		D-20	2							
TROOPS				-						
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SU-24-FENGER 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				+	_	+		2		-
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1 TROOPS 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	67			\vdash	-					
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AGCON_1 AGCON_1 AGCON_1 AGCON_1 AGCON_1 AGCON_1 AGCON_1 AGCON_4 MANCON_3 AGCON_1 AGCON
C 325F581899 325F5818049 325F5818048 325F5818048 325F5818048 325F5818048 325F5818048 325F5801122 325F5801122 325F6801122 325F6801122 325F6808123 325F680812 325F682801 325F682801 325F682801 325F682801 325F682802 325F682802 325F682802 325F682802 325F682802 325F682802 325F682802 325F682802 325F682802 325F682802 325F682802 325F682802 325F682802 325F682802 325F682802
TANKZ B GROUND_ENGAGEMENT 7 GROUND_ENGAGEMENT
1172 60063022AN99 1175 60063022AN99 1175 60063022AN99 1175 60063022AN99 1175 60063022AN99 1180 6006302AN99 1181 6006302AN99

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		-	0	0	0	0	•				060828ZJAN99
1177 No damage assessed.	CE_PRODUCT		0	0	0	0	0				
	TROOPS		8	0	0	0	0				
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	TROOPS	_	22	•	0	0	0				
	HMMWV-TOW		0	0	9	2	0				
	TROOPS		ผ	•	0	0	0				
	HMMWV-TOW		0	•	9	7	0				
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		_									

B. SIX-NODE RUN

1. Spot Report Log file for 3-1-99_J61J62_V2

;AIR RTE POINT;GCAS11;32SPG698020;060805ZJAN99;MANCON_2;AIR MISSION HAS REACHED ORBIT POINT PRINTED BY: mds007

;AIR RTE POINT;GCAS12;32SPG698020;060805ZJAN99;MANCON_2;AIR MISSION HAS REACHED ORBIT POINT PRINTED BY: mds007

;AIR RTE POINT;GCAS13;32SPG698020;060806ZJAN99;MANCON_2;AIR MISSION HAS REACHED ORBIT POINT PRINTED BY: mds007

;AIR RTE POINT;GCAS14;32SPG698020;060806ZJAN99;MANCON_2;AIR MISSION HAS REACHED ORBIT POINT PRINTED BY: mds007

;AIR RTE POINT;GCAS15;32SPG698020;060806ZJAN99;MANCON_2;AIR MISSION HAS REACHED ORBIT POINT PRINTED BY: mds007

;VISUAL DETECT;HILLIFY;32SPF841931;060806ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED MEDICAL UNIT AT 32SPF849930, TRACK 9

, ID=MED1 TRAILER-WATER-300G 3; 5.0-TRUCK 3; HMMWV-AMBUL 9; HMMWV 3; TROOPS 201; .50CAL-MG 1; PRINTED BY: mds007

;VISUAL DETECT;MED1;32SPF850929;060806ZJAN99;MANCON_3;HAVE DETECTED SECTION SIZED INFANTRY UNIT AT 32SPF843930, TRACK 2

, ID=HILLIFY HMMWV-40MM-MG 1; TROOPS 2; PRINTED BY: mds007

;UNIT BARRIER STATUS;INF_H/B;32SPF841931;060807ZJAN99;MANCON_3;WITHIN BARRIER MOUNTAIN NAMED HILL PRINTED BY: mds007

;UNIT MOVE ;INF_H/B;32SPF841931;060807ZJAN99;MANCON_3;COMMENCING MOVEMENT at 060807ZJAN99
PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE; MED1;32SPF850929;060807ZJAN99; MANCON_3; HAS INITIATED ENGAGEMENT WITH HILLIFY PRINTED BY: mds007

;OBJECT DETECT;LDVEH1;32SPG729015;060807ZJAN99;AGCON_1;HAVE DETECTED STRUCTURE AT 32SPG727000; PRINTED BY: mds007

;OBJECT DETECT;LDVEH1;32SPG729015;060807ZJAN99;AGCON_1;HAVE DETECTED BRIDGE [% 0 DAMAGED] AT 32SPF738992;

;OBJECT DETECT;LDVEH1;32SPG729015;060807ZJAN99;AGCON_1;HAVE DETECTED BRIDGE [% 0 DAMAGED] AT 32SPG740005;

PRINTED BY: mds007

;OBJECT DETECT;LDVEH1;32SPG729015;060807ZJAN99;AGCON_1;HAVE DETECTED RIVER AT 32SPG738023;

PRINTED BY: mds007

;VISUAL DETECT;SOF;32SPG726000;060807ZJAN99;MANCON_6;HAVE DETECTED COMPANY SIZED LIGHT_ARMOR UNIT AT 32SPG729014, TRACK 2

, ID=LDVEH1 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63;

PRINTED BY: mds007

;UNIT DEFENSIVE MISSION ;SOF;32SPG726000;060808ZJAN99;MANCON_6;HAS ASSUMED WITHDRAW MISSION DUE TO CPR (0.01685<=0.17000)
PRINTED BY: mds007

;UNIT MOVE ;SOF;32SPG726000;060808ZJAN99;MANCON_6;COMMENCING MOVEMENT at 060808ZJAN99
PRINTED BY: mds007

;UNIT MOVE ;INF_A1/P;32SPF830929;060808ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060808ZJAN99
PRINTED BY: mds007

;VISUAL DETECT;SILK5;32SPF835953;060808ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF824932, TRACK 2

, ID=INF_A1/P TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT;SILK5;32SPF835953;060808ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF841933, TRACK 3

, ID=INF_H/B TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT;SILK5;32SPF835953;060808ZJAN99;AGCON_1;HAVE DETECTED A SHIP AT 32SPF867938, TRACK 4

, ID=AAAV2 AAAV 1; PRINTED BY: mds007

;OBJECT DETECT;ENG;32SPF796885;060808ZJAN99;MANCON_6;HAVE DETECTED ANTI_TANK Minefield [% 0 DAMAGED] AT 32SPF793883; PRINTED BY: mds007

;OBJECT DETECT;ENG;32SPF796885;060808ZJAN99;MANCON_6;HAVE DETECTED ANTI_PERSONNEL Minefield [% 0 DAMAGED] AT 32SPF794885; PRINTED BY: mds007

;OBJECT DETECT;MED1;32SPG977030;060808ZJAN99;MANCON_3;HAVE DETECTED STRUCTURE AT 32SPG987050;
PRINTED BY: mds007

;OBJECT DETECT;MED1;32SPG977030;060808ZJAN99;MANCON_3;HAVE DETECTED STRUCTURE AT 32SPG939034;

;OBJECT DETECT;MED1;32SPG977030;060808ZJAN99;MANCON_3;HAVE DETECTED MOUNTAIN AT 32SPG987026;
PRINTED BY: mds007

;VISUAL DETECT;INF_H/B;32SPF842931;060808ZJAN99;MANCON_3;HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPF836950, TRACK 3

, ID=SILK5 D-20 2; TROOPS 8; PRINTED BY: mds007

; VISUAL DETECT; INF_A1/P; 32SPF823930; 060808ZJAN99; MANCON_4; HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPF835951, TRACK 3

, ID=SILK5 D-20 2; TROOPS 8; PRINTED BY: mds007

;VISUAL DETECT STATUS;HILLIFY;32SPF841931;060808ZJAN99;AGCON_1;DETECTION AT 32SPF824869 HAS BEEN TEMPORARILY LOST, TRACK 5

, ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82; PRINTED BY: mds007

;VISUAL DETECT STATUS;ENG;32SPF796885;060808ZJAN99;MANCON_6;DETECTION AT 32SPF814946 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=HILLIFY HMMWV-40MM-MG 1; TROOPS 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;HILLIFY;32SPF841931;060808ZJAN99;AGCON_1;DETECTION AT 32SQF009912 HAS BEEN TEMPORARILY LOST, TRACK 9

, ID=MED1 TRAILER-WATER-300G 3; 5.0-TRUCK 3; HMMWV-AMBUL 9; HMMWV 3; TROOPS 201; .50CAL-MG 1; PRINTED BY: mds007

;VISUAL DETECT STATUS;MED1;32SPG977030;060808ZJAN99;MANCON_3;DETECTION AT 32SPG810048 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=HILLIFY HMMWV-40MM-MG 1; TROOPS 2; PRINTED BY: mds007

;AIR WPN LNCH;GCAS2;32SPG697020;060808ZJAN99;MANCON_2;AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT PRINTED BY: mds007

;STATUS CHANGE;SILK5;32SPF835953;060808ZJAN99;AGCON_1; UNDER AIR ATTACK PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_GREEN; AIR_TO_SURFACE; 32SPF835953; 060808ZJAN99; MANCON 2; GCAS2;

UNIT SILK5; D-20 1 K_KILLED, 1 M_KILLED, PRINTED BY: mds007

; ASSESSMENT REPORT; CG; AIR_TO_SURFACE; 32SPF835953; 060808ZJAN99; MANCON 2; GCAS2;

UNIT SILK5; D-20 1 K_KILLED, 1 M_KILLED, PRINTED BY: mds007

; ASSESSMENT

REPORT; SILK5; AIR TO SURFACE; 32SPF835953; 060808ZJAN99; AGCON_1; GCAS2;

UNIT SILK5; D-20 1 K KILLED, 1 M KILLED,

PRINTED BY: mds007

;UNIT MOVE ;INF_A2/P;32SPF841900;060809ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060809ZJAN99

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; HILLIFY; 32SPF841931; 060809ZJAN99; AGCON_1; IS ENGAGED BY MED1

PRINTED BY: mds007

;VISUAL DETECT STATUS;SOF;32SPF726999;060809ZJAN99;MANCON_6;DETECTION AT 32SPG775260 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=LDVEH1 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63:

· PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE;HILLIFY;32SPF841931;060809ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH MED1 PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; MED1; 32SPG977030; 060809ZJAN99; MANCON_3; HAS TERMINATED ENGAGEMENT, NO LOS WITH HILLIFY PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_H/B;32SPF842931;060809ZJAN99;MANCON_3;HAS INITIATED ENGAGEMENT WITH SILK5
PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_A1/P;32SPF823930;060809ZJAN99;MANCON_4;HAS INITIATED ENGAGEMENT WITH SILK5
PRINTED BY: mds007

;VISUAL DETECT;SILK5;32SPF835953;060809ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED ENGINEER UNIT AT 32SPF829930, TRACK 5

, ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82; PRINTED BY: mds007

;VISUAL DETECT;ENG;32SPF828928;060809ZJAN99;MANCON_6;HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPF835951, TRACK 3

, ID=SILK5 D-20 1; TROOPS 8; PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; ENG; 32SPF828928; 060810ZJAN99; MANCON_6; HAS INITIATED ENGAGEMENT WITH HILLIFY PRINTED BY: mds007

;AIR RTE POINT;GCAS2;32SPG974088;060810ZJAN99;MANCON_2;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;GCAS2;32SPG974088;060810ZJAN99;MANCON_2;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;VISUAL DETECT;SOF;32SPF726998;060810ZJAN99;MANCON_6;HAVE DETECTED COMPANY SIZED LIGHT_ARMOR UNIT AT 32SPF726980, TRACK 3

, ID=LDVEH2 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63;

PRINTED BY: mds007

;UNIT MOVE ;INF_A1/P;32SPF805936;060811ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060811ZJAN99

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; HILLIFY; 32SPF841931; 060811ZJAN99; AGCON_1; IS ENGAGED BY ENG

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; SILK5; 32SPF835953; 060811ZJAN99; AGCON_1; IS ENGAGED BY INF H/B

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; SILK5; 32SPF835953; 060811ZJAN99; AGCON_1; IS ENGAGED BY INF A1/P

PRINTED BY: mds007

; REPORT; GROUND_ENGAGEMENT 1;32SPF806934;060811ZJAN99; MANCON_3, AGCON_1, MANCON_4, MANCON_6;

Initial engagement times:

INF H/B; 060803ZJAN99

HILLIFY; 060803ZJAN99

INF_H/P; 060804ZJAN99

INF_A2/P; 060804ZJAN99

INF A1/P; 060805ZJAN99

SILK5; 060809ZJAN99

ENG; 060810ZJAN99

Cumulative losses:

CE_PRODUCT NORTH RD; No damage assessed.

CE PRODUCT NOR BCH; No damage assessed.

TROOPS 1 WIA,

No changes in CDA since last report.

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; ENG; 32SPF806934; 060811ZJAN99; MANCON_6; HAS TERMINATED ENGAGEMENT WITH HILLIFY PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; HILLIFY; 32SPF841931; 060811ZJAN99; AGCON_1; HAS TERMINATED ENGAGEMENT WITH ENG

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PRINTED BY: mds007

;VISUAL DETECT STATUS;HILLIFY;32SPF841931;060811ZJAN99;AGCON_1;DETECTION AT 32SPF825890 HAS BEEN TEMPORARILY LOST, TRACK 7

, ID=INF_A2/P TROOPS 182;
PRINTED BY: mds007

;VISUAL DETECT STATUS;HILLIFY;32SPF841931;060811ZJAN99;AGCON_1;DETECTION AT 32SPF789936 HAS BEEN TEMPORARILY LOST, TRACK 8
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, ID=INF_A1/P TROOPS 182; SMAW 6; PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_A1/P;32SPF790941;060811ZJAN99;MANCON_4;DETECTION AT 32SPF842936 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=HILLIFY HMMWV-40MM-MG 1; TROOPS 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;SILK5;32SPF835953;060811ZJAN99;AGCON_1;DETECTION AT 32SPF799923 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=INF_A1/P TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_A1/P;32SPF790941;060811ZJAN99;MANCON_4;DETECTION AT 32SPF826971 HAS BEEN TEMPORARILY LOST, TRACK 3

, ID=SILK5 D-20 1; TROOPS 8; PRINTED BY: mds007

;UNIT DESTINATION ;INF_A1/P;32SPF774947;060812ZJAN99;MANCON_4;HAVE REACHED ASSIGNED DESTINATION PRINTED BY: mds007

;VISUAL DETECT STATUS;HILLIFY;32SPF841931;060812ZJAN99;AGCON_1;DETECTION AT 32SPF773938 HAS BEEN TEMPORARILY LOST, TRACK 5

, ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82; PRINTED BY: mds007

;VISUAL DETECT STATUS;ENG;32SPF774946;060812ZJAN99;MANCON_6;DETECTION AT 32SPF843938 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=HILLIFY HMMWV-40MM-MG 1; TROOPS 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_A2/P;32SPF813890;060812ZJAN99;MANCON_4;DETECTION AT 32SPF837933 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=HILLIFY HMMWV-40MM-MG 1; TROOPS 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;SILK5;32SPF835953;060812ZJAN99;AGCON_1;DETECTION AT 32SPF783920 HAS BEEN TEMPORARILY LOST, TRACK 5

, ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82; PRINTED BY: mds007

; VISUAL DETECT STATUS; ENG; 32SPF774946; 060812ZJAN99; MANCON_6; DETECTION AT 32SPF827978 HAS BEEN TEMPORARILY LOST, TRACK 3

, ID=SILK5 D-20 1; TROOPS 8; PRINTED BY: mds007

;VISUAL DETECT STATUS;SOF;32SPF726998;060812ZJAN99;MANCON_6;DETECTION AT 32SPF731742 HAS BEEN TEMPORARILY LOST, TRACK 3

, ID=LDVEH2 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63;

PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;HILLIFY;32SPF841931;060812ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_A2/P PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_A2/P;32SPF813890;060812ZJAN99;MANCON_4;HAS TERMINATED ENGAGEMENT, NO LOS WITH HILLIFY PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; HILLIFY; 32SPF841931; 060812ZJAN99; AGCON_1; HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_A1/P PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_A1/P;32SPF774947;060812ZJAN99;MANCON_4;HAS TERMINATED ENGAGEMENT, NO LOS WITH HILLIFY PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;SILK5;32SPF835953;060812ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_A1/P PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_A1/P;32SPF774947;060812ZJAN99;MANCON_4;HAS TERMINATED ENGAGEMENT, NO LOS WITH SILK5 PRINTED BY: mds007

;UNIT MOVE ;INF_A2/P;32SPF813890;060812ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060812ZJAN99
PRINTED BY: mds007

;VISUAL DETECT STATUS;HILLIFY;32SPF841931;060812ZJAN99;AGCON_1;DETECTION AT 32SQF032874 HAS BEEN LOST, TRACK 3

, ID=SMC TROOPS 257; PRINTED BY: mds007

;VISUAL DETECT STATUS;SILK5;32SPF744755;060812ZJAN99;AGCON_1;DETECTION AT 32SPF799561 HAS BEEN TEMPORARILY LOST, TRACK 3

, ID=INF_H/B TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT STATUS;SILK5;32SPF744755;060812ZJAN99;AGCON_1;DETECTION AT 32SPF946663 HAS BEEN TEMPORARILY LOST, TRACK 4

, ID=AAAV2 AAAV 1; PRINTED BY: mds007

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;VISUAL DETECT STATUS;INF_H/B;32SPF842931;060812ZJAN99;MANCON_3;DETECTION AT 32SPG787124 HAS BEEN TEMPORARILY LOST, TRACK 3

, ID=SILK5 D-20 1; TROOPS 8;
PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;SILK5;32SPF744755;060813ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_H/B PRINTED BY: mds007
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; ENGAGEMENT STATUS CHANGE ; INF_H/B; 32SPF842931; 060813ZJAN99; MANCON_3; HAS TERMINATED ENGAGEMENT, NO LOS WITH SILK5 PRINTED BY: mds007

;UNIT MOVE ;INF_H/P;32SPF837899;060813ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060813ZJAN99
PRINTED BY: mds007

;VISUAL DETECT; TANK1;32SPF770886;060813ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED ENGINEER UNIT AT 32SPF790882, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82; PRINTED BY: mds007

;VISUAL DETECT; TANK1;32SPF770886;060813ZJAN99;AGCON_1; HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF788882, TRACK 3

, ID=INF_A2/P TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT;ENG;32SPF792881;060813ZJAN99;MANCON_6;HAVE DETECTED COMPANY SIZED TANK UNIT AT 32SPF773886, TRACK 4

, ID=TANK1 HMMWV-TOW 8; M1A1 14; TROOPS 8; PRINTED BY: mds007

; VISUAL DETECT; INF_A2/P; 32SPF790882; 060813ZJAN99; MANCON_4; HAVE DETECTED COMPANY SIZED TANK UNIT AT 32SPF773886, TRACK 3

, ID=TANK1 HMMWV-TOW 8; M1A1 14; TROOPS 8; PRINTED BY: mds007

;VISUAL DETECT STATUS;HILLIFY;32SPF841931;060813ZJAN99;AGCON_1;DETECTION AT 32SPF836888 HAS BEEN TEMPORARILY LOST, TRACK 6

, ID=INF_H/P TROOPS 182; PRINTED BY: mds007

; UNIT MOVE ; INF_A1/P; 32SPF774947; 060814ZJAN99; MANCON_4; COMMENCING MOVEMENT at 060814ZJAN99

PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;HILLIFY;32SPF841931;060814ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_H/P PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; INF_H/P; 32SPF821893; 060814ZJAN99; MANCON_4; HAS TERMINATED ENGAGEMENT, NO LOS WITH HILLIFY PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; TANK1; 32SPF770886; 060814ZJAN99; AGCON_1; HAS INITIATED ENGAGEMENT WITH ENG PRINTED BY: mds007

;UNIT DEFENSIVE MISSION ;INF A2/P;32SPF774886;060814ZJAN99;MANCON_4;HAS ASSUMED DEFENSIVE MISSION DUE TO CPR (0.36546<=2.00000)
PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_A2/P;32SPF774886;060814ZJAN99;MANCON_4;HAS INITIATED ENGAGEMENT WITH TANK1
PRINTED BY: mds007

;AIR WPN LNCH;RCAS5;32SPF848978;060814ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT PRINTED BY: mds007

;STATUS CHANGE;TANK1;32SPF770886;060814ZJAN99;AGCON_1; UNDER AIR ATTACK PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_RED; AIR_TO_SURFACE; 32SPF770886; 060814ZJAN99; MANCON 5; RCAS5;

UNIT TANK1; HMMWV-TOW 1 M_KILLED, PRINTED BY: mds007

; ASSESSMENT REPORT; SOF; AIR_TO_SURFACE; 32SPF770886; 060814ZJAN99; MANCON 6; RCAS5;

UNIT TANK1; HMMWV-TOW 1 M_KILLED, PRINTED BY: mds007

EKINIED BI: MGS00

; ASSESSMENT

REPORT; TANK1; AIR_TO_SURFACE; 32SPF770886; 060814ZJAN99; AGCON_1; RCAS5;

UNIT TANK1; HMMWV-TOW 1 M_KILLED, PRINTED BY: mds007

;AIR WPN LNCH;RCAS6;32SPF848978;060814ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT PRINTED BY: mds007

:ASSESSMENT

REPORT; VF_RED; AIR_TO_SURFACE; 32SPF770886; 060814ZJAN99; MANCON_5; RCAS6;

UNIT TANK1; TROOPS 4 WIA, 1 KIA

UNIT TANK1; M1A1 1 M_KILLED, 2 F_KILLED PRINTED BY: mds007

; ASSESSMENT REPORT; SOF; AIR_TO_SURFACE; 32SPF770886; 060814ZJAN99; MANCON 6; RCAS6;

UNIT TANK1; TROOPS 4 WIA, 1 KIA

UNIT TANK1; M1A1 1 M_KILLED, 2 F_KILLED PRINTED BY: mds007

; ASSESSMENT

REPORT; TANK1; AIR_TO_SURFACE; 32SPF770886; 060814ZJAN99; AGCON 1; RCAS6;

UNIT TANK1; TROOPS 4 WIA, 1 KIA

UNIT TANK1; M1A1 1 M_KILLED, 2 F_KILLED

;VISUAL DETECT CHANGE; TANK1; 32SPF770886; 060814ZJAN99; AGCON_1; DETECTION AT 32SPF771886 IS A COMPANY SIZED INFANTRY UNIT, TRACK 3

, ID=INF_A2/P TROOPS 182; SMAW 6; PRINTED BY: mds007

;VISUAL DETECT;TANK2;32SPF783991;060814ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF778965, TRACK 2

, ID=INF_A1/P TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT;INF_A1/P;32SPF778963;060814ZJAN99;MANCON_4;HAVE DETECTED COMPANY SIZED TANK UNIT AT 32SPF783990, TRACK 4

, ID=TANK2 HMMWV-TOW 8; M1A1 14; TROOPS 8; PRINTED BY: mds007

;AIR WPN LNCH;RCAS7;32SPF848978;060815ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT PRINTED BY: mds007

;STATUS CHANGE;TANK2;32SPF783991;060815ZJAN99;AGCON_1; UNDER AIR ATTACK PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_RED; AIR_TO_SURFACE; 32SPF783991; 060815ZJAN99; MANCON_5; RCAS7;

UNIT TANK2; TROOPS 7 WIA, 3 KIA

UNIT TANK2; M1A1 2 M_KILLED, 1 F_KILLED PRINTED BY: mds007

; ASSESSMENT REPORT; SOF; AIR TO SURFACE; 32SPF783991; 060815ZJAN99; MANCON 6; RCAS7;

UNIT TANK2; TROOPS 7 WIA, 3 KIA

UNIT TANK2; M1A1 2 M_KILLED, 1 F_KILLED PRINTED BY: mds007

; ASSESSMENT

REPORT; TANK2; AIR TO SURFACE; 32SPF783991; 060815ZJAN99; AGCON 1; RCAS7;

UNIT TANK2; TROOPS 7 WIA, 3 KIA

UNIT TANK2; M1A1 2 M_KILLED, 1 F_KILLED PRINTED BY: mds007

;AIR WPN LNCH;RCAS8;32SPF848978;060815ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT PRINTED BY: mds007

;UNIT MOUNT ;TANK2;32SPF783991;060815ZJAN99;AGCON_1;NOT ENOUGH OPERATORS TO MEET REQUIREMENTS
PRINTED BY: mds007

; ASSESSMENT

REPORT; VF RED; AIR TO SURFACE; 32SPF783991; 060815ZJAN99; MANCON 5; RCAS8;

UNIT TANK2; TROOPS 6 WIA, 2 KIA

UNIT TANK2; M1A1 1 K_KILLED, 1 M_KILLED, 1 F_KILLED PRINTED BY: mds007

; ASSESSMENT REPORT; SOF; AIR_TO_SURFACE; 32SPF783991; 060815ZJAN99; MANCON_6; RCAS8;

UNIT TANK2; TROOPS 6 WIA, 2 KIA

UNIT TANK2; M1A1 1 K_KILLED, 1 M_KILLED, 1 F_KILLED PRINTED BY: mds007

; ASSESSMENT

REPORT; TANK2; AIR_TO_SURFACE; 32SPF783991; 060815ZJAN99; AGCON 1; RCAS8;

UNIT TANK2; TROOPS 6 WIA, 2 KIA

UNIT TANK2; M1A1 1 K_KILLED, 1 M_KILLED, 1 F_KILLED PRINTED BY: mds007

;OBJECT DETECT;INF_A1/P;32SPF781979;060815ZJAN99;MANCON_4;HAVE DETECTED BRIDGE [% 0 DAMAGED] AT 32SPF738992; PRINTED BY: mds007

;OBJECT DETECT;INF_A1/P;32SPF781979;060815ZJAN99;MANCON_4;HAVE DETECTED RIVER AT 32SPF742979;
PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_H/P;32SPF806887;060815ZJAN99;MANCON_4;DETECTION AT 32SPF832937 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=HILLIFY HMMWV-40MM-MG 1; TROOPS 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;TANK1;32SPF717763;060815ZJAN99;AGCON_1;DETECTION AT 32SPF855731 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82; PRINTED BY: mds007

; VISUAL DETECT STATUS; TANK1; 32SPF717763; 060815ZJAN99; AGCON_1; DETECTION AT 32SPF852740 HAS BEEN TEMPORARILY LOST, TRACK 3

, ID=INF_A2/P TROOPS 182; SMAW 6; PRINTED BY: mds007

; VISUAL DETECT STATUS; ENG; 32SPF792881; 060815ZJAN99; MANCON_6; DETECTION AT 32SPF655913 HAS BEEN TEMPORARILY LOST, TRACK 4

, ID=TANK1 HMMWV-TOW 8; M1A1 14; TROOPS 4; PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_A2/P;32SPF774886;060815ZJAN99;MANCON_4;DETECTION AT 32SPF640909 HAS BEEN TEMPORARILY LOST, TRACK 3

, ID=TANK1 HMMWV-TOW 8; M1A1 14; TROOPS 4; PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;TANK2;32SPF783991;060815ZJAN99;AGCON_1;HAS INITIATED ENGAGEMENT WITH INF_A1/P PRINTED BY: mds007

;UNIT DEFENSIVE MISSION; INF_A1/P;32SPF781979;060815ZJAN99;MANCON_4;HAS ASSUMED DEFENSIVE MISSION DUE TO CPR (0.39168<=2.00000)
PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_A1/P;32SPF781979;060815ZJAN99;MANCON_4;HAS INITIATED ENGAGEMENT WITH TANK2
PRINTED BY: mds007

;AIR RTE POINT;RCAS5;32SPG921064;060815ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;RCAS5;32SPG921064;060815ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0

PRINTED BY: mds007

;AIR RTE POINT;RCAS6;32SPG921064;060815ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;RCAS6;32SPG921064;060815ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED:

PRINTED BY: mds007

;UNIT MOVE ;INF_A1/P;32SPF781979;060815ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060815ZJAN99
PRINTED BY: mds007

;AIR MSN LAUNCH;RCAS11;32SPG921064;060815ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;OBJECT DETECT;SILK4;32SPF863868;060815ZJAN99;AGCON_1;HAVE DETECTED STRUCTURE AT 32SPF879851;
PRINTED BY: mds007

;VISUAL DETECT;SILK4;32SPF863868;060815ZJAN99;AGCON_1;HAVE DETECTED A SHIP AT-32SPF877902, TRACK 2

, ID=AAAV1 AAAV 1; PRINTED BY: mds007

;OBJECT DETECT;MED3;32SPF781978;060815ZJAN99;MANCON_3;HAVE DETECTED RIVER AT 32SPF742979;
PRINTED BY: mds007

;OBJECT DETECT;INF_A1/P;32SPF784996;060815ZJAN99;MANCON_4;HAVE DETECTED BRIDGE [% 0 DAMAGED] AT 32SPG740005;
PRINTED BY: mds007

;VISUAL DETECT STATUS;TANK2;32SPF680763;060815ZJAN99;AGCON_1;DETECTION AT 32SPF620515 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=INF_A1/P TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_A1/P;32SPF784996;060815ZJAN99;MANCON_4;DETECTION AT 32SPG844244 HAS BEEN TEMPORARILY LOST, TRACK 4

, ID=TANK2 HMMWV-TOW 8; M1A1 13; PRINTED BY: mds007

;AIR MSN LAUNCH;RCAS12;32SPG921064;060815ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH;RCAS13;32SPG921064;060816ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR RTE POINT;RCAS7;32SPG921064;060816ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;RCAS7;32SPG921064;060816ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0

PRINTED BY: mds007

;AIR MSN LAUNCH;RCAS14;32SPG921064;060816ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060816ZJAN99;MANCON_3;AIR TRACK BF (RCAS14) DETECTED AT 32SPG891029; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060816ZJAN99;MANCON_3;AIR TRACK BG (RCAS13) DETECTED AT 32SPG891029; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060816ZJAN99;MANCON_3;AIR TRACK BH (RCAS12) DETECTED AT 32SPG891029; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060816ZJAN99;MANCON_3;AIR TRACK BI (RCAS11) DETECTED AT 32SPF861994; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR RTE POINT;RCAS8;32SPG921064;060816ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;RCAS8;32SPG921064;060816ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0

PRINTED BY: mds007

;AIR MSN LAUNCH;RCAS15;32SPG921064;060816ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;UNIT MOVE ;INF_A2/P;32SPF774886;060816ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060816ZJAN99

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; ENG; 32SPF768887; 060816ZJAN99; MANCON_6; IS ENGAGED BY

TANK1

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; TANK1; 32SPF717763; 060816ZJAN99; AGCON_1; IS ENGAGED BY

INF A2/P

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; TANK1; 32SPF717763; 060816ZJAN99; AGCON 1; HAS

TERMINATED ENGAGEMENT, NO LOS WITH ENG

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; ENG; 32SPF768887; 060816ZJAN99; MANCON 6; HAS

TERMINATED ENGAGEMENT, NO LOS WITH TANK1

PRINTED BY: mds007

;REPORT; GROUND ENGAGEMENT 2;32SPF717763;060816ZJAN99;AGCON 1,MANCON 4;

NO ASSESSMENT;

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; TANK1; 32SPF717763; 060816ZJAN99; AGCON 1; HAS

TERMINATED ENGAGEMENT, NO LOS WITH INF A2/P

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; INF A2/P; 32SPF758891; 060816ZJAN99; MANCON 4; HAS

TERMINATED ENGAGEMENT, NO LOS WITH TANK1

PRINTED BY: mds007

;REPORT; GROUND ENGAGEMENT 3;32SPF784996;060816ZJAN99;MANCON 4,AGCON 1;

NO ASSESSMENT;

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; TANK2; 32SPF680763; 060816ZJAN99; AGCON_1; HAS

TERMINATED ENGAGEMENT, NO LOS WITH INF_A1/P

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; INF A1/P; 32SPF784996; 060816ZJAN99; MANCON 4; HAS

TERMINATED ENGAGEMENT, NO LOS WITH TANK2

PRINTED BY: mds007

;UNIT DEFENSIVE MISSION ;INF A1/P;32SPF784996;060816ZJAN99;MANCON 4;HAS

ASSUMED DEFENSIVE MISSION DUE TO CPR (0.39168<=2.00000)

PRINTED BY: mds007

;UNIT DEFENSIVE MISSION ;INF A2/P;32SPF758891;060816ZJAN99;MANCON 4;HAS

ASSUMED DEFENSIVE MISSION DUE TO CPR (0.36644<=2.00000)

PRINTED BY: mds007

;AIR MSN LAUNCH;RCAS16;32SPG921064;060816ZJAN99;MANCON 5,MANCON 6;AIR MISSION

HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH;RCAS17;32SPG921064;060816ZJAN99;MANCON 5,MANCON 6;AIR MISSION

HAS LAUNCHED

PRINTED BY: mds007

;AIR MSN LAUNCH;RCAS18;32SPG921064;060816ZJAN99;MANCON 5,MANCON 6;AIR MISSION

HAS LAUNCHED

PRINTED BY: mds007

;AIR RTE POINT;RCAS11;32SPF847978;060816ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED ORBIT POINT PRINTED BY: mds007

;AIR MSN LAUNCH;RCAS19;32SPG921064;060816ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS LAUNCHED

PRINTED BY: mds007

;AIR RTE POINT;RCAS12;32SPF847978;060816ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED ORBIT POINT PRINTED BY: mds007

;UNIT MOVE ;INF_H/P;32SPF774886;060816ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060816ZJAN99
PRINTED BY: mds007

;AIR MSN LAUNCH;RCAS20;32SPG921064;060816ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS LAUNCHED PRINTED BY: mds007

;AIR RTE POINT;RCAS13;32SPF847978;060816ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED ORBIT POINT PRINTED BY: mds007

;AIR RTE POINT;RCAS14;32SPF847978;060816ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED ORBIT POINT PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060816ZJAN99;MANCON_3;AIR TRACK BJ (RCAS20) DETECTED AT 32SPG891029; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060816ZJAN99;MANCON_3;AIR TRACK BK (RCAS19) DETECTED AT 32SPG891029; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060816ZJAN99;MANCON_3;AIR TRACK BL (RCAS18) DETECTED AT 32SPF861994; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060816ZJAN99;MANCON_3;AIR TRACK BM (RCAS17) DETECTED AT 32SPF861994; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060816ZJAN99;MANCON_3;AIR TRACK BN (RCAS16) DETECTED AT 32SPF859992; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR TRK DATA;LHA;32SPF962990;060816ZJAN99;MANCON_3;AIR TRACK BO (RCAS15) DETECTED AT 32SPF861994; TRACK IS FRIENDLY PRINTED BY: mds007

;AIR RTE POINT;RCAS15;32SPF847978;060816ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED ORBIT POINT PRINTED BY: mds007

;VISUAL DETECT;SOF;32SPF726995;060816ZJAN99;MANCON_6;HAVE DETECTED COMPANY SIZED LIGHT_ARMOR UNIT AT 32SPG729012, TRACK 4

, ID=LDVEH3 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63;

PRINTED BY: mds007

;AIR RTE POINT;RCAS16;32SPF847978;060816ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT;RCAS17;32SPF847978;060816ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT;RCAS18;32SPF847978;060816ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT;RCAS19;32SPF847978;060816ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR RTE POINT;RCAS20;32SPF847978;060817ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED ORBIT POINT

PRINTED BY: mds007

;AIR WPN LNCH;GCAS3;32SPF732988;060817ZJAN99;MANCON_2;AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT

PRINTED BY: mds007

;STATUS CHANGE;SILK4;32SPF863868;060817ZJAN99;AGCON_1; UNDER AIR ATTACK PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_GREEN; AIR_TO_SURFACE; 32SPF863868; 060817ZJAN99; MANCON_2; GCAS3;

UNIT SILK4; D-20 2 K_KILLED,

PRINTED BY: mds007

;ASSESSMENT REPORT;CG;AIR_TO_SURFACE;32SPF863868;060817ZJAN99;MANCON_2;GCAS3;

UNIT SILK4; D-20 2 K KILLED,

PRINTED BY: mds007

; ASSESSMENT

REPORT; SILK4; AIR_TO_SURFACE; 32SPF863868; 060817ZJAN99; AGCON_1; GCAS3;

UNIT SILK4; D-20 2 K KILLED,

PRINTED BY: mds007

; REPORT; GROUND ENGAGEMENT 1;32SPF841931;060817ZJAN99; MANCON 3,AGCON 1;

Initial engagement times:

INF_H/B; 060803ZJAN99

HILLIFY; 060803ZJAN99

Cumulative losses:

UNIT INF_H/B; TROOPS 5 WIA, UNIT AGSUP; No damage assessed. UNIT AGSUP; No damage assessed.

UNIT HILLIFY; TROOPS 1 WIA,

Incremental losses (increases since the last report)

UNIT INF H/B; TROOPS 5 WIA,

PRINTED BY: mds007

;UNIT MOVE ;INF_H/P;32SPF749894;060818ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060818ZJAN99

PRINTED BY: mds007

;AIR RTE POINT;GCAS3;32SPG906036;060818ZJAN99;MANCON_2;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;GCAS3;32SPG906036;060818ZJAN99;MANCON_2;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;VISUAL DETECT;AGSUP;32SPF728830;060818ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED ENGINEER UNIT AT 32SPF726862, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; X-TANK 4; HMMWV 9; SEE 2; PRINTED BY: mds007

;VISUAL DETECT;AGAIR;32SPF728830;060818ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED ENGINEER UNIT AT 32SPF726861, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; X-TANK 4; HMMWV 9; SEE 2; PRINTED BY: mds007

;OBJECT DETECT;ENG;32SPF725864;060818ZJAN99;MANCON_6;HAVE DETECTED STRUCTURE AT 32SPF728833;
PRINTED BY: mds007

;VISUAL DETECT;ENG;32SPF725864;060818ZJAN99;MANCON_6;HAVE DETECTED SQUADRON SIZED AVIATION UNIT AT 32SPF728833, TRACK 5

, ID=AGAIR
PRINTED BY: mds007

;VISUAL DETECT;ENG;32SPF725864;060818ZJAN99;MANCON_6;HAVE DETECTED COMPANY SIZED SUPPLY UNIT AT 32SPF728832, TRACK 6

, ID=AGSUP
PRINTED BY: mds007

;VISUAL DETECT STATUS;HILLIFY;32SPF841931;060818ZJAN99;AGCON_1;DETECTION AT 32SQF009912 HAS BEEN LOST, TRACK 9

, ID=MED1 TRAILER-WATER-300G 3; 5.0-TRUCK 3; HMMWV-AMBUL 9; HMMWV 3; TROOPS 201; .50CAL-MG 1; PRINTED BY: mds007

;VISUAL DETECT STATUS;MED1;32SPG977030;060818ZJAN99;MANCON_3;DETECTION AT 32SPG810048 HAS BEEN LOST, TRACK 2

, ID=HILLIFY HMMWV-40MM-MG 1; TROOPS 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;SILK4;32SPF704765;060818ZJAN99;AGCON_1;DETECTION AT 32SPF787970 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=AAAV1 AAAV 1; PRINTED BY: mds007

;UNIT MOVE ;INF_A1/P;32SPF784996;060818ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060818ZJAN99
PRINTED BY: mds007

;AIR WPN LNCH;RCAS9;32SPF818942;060818ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT PRINTED BY: mds007

;ASSESSMENT REPORT; VF_RED;AIR_TO_SURFACE; 32SPF818942; 060818ZJAN99; MANCON_5;
NO ASSESSMENT; Msn# RCAS9

PRINTED BY: mds007

;ASSESSMENT REPORT;SOF;AIR_TO_SURFACE;32SPF818942;060818ZJAN99;MANCON_6;
NO ASSESSMENT; Msn# RCAS9

PRINTED BY: mds007

;UNIT MOVE ;INF_A1/P;32SPF775981;060818ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060818ZJAN99
PRINTED BY: mds007

;VISUAL DETECT STATUS;SOF;32SPF726994;060818ZJAN99;MANCON_6;DETECTION AT 32SPG774255 HAS BEEN LOST, TRACK 2

, ID=LDVEH1 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63;

PRINTED BY: mds007

; VISUAL DETECT STATUS; SOF; 32SPF726994; 060818ZJAN99; MANCON_6; DETECTION AT 32SPG778248 HAS BEEN TEMPORARILY LOST, TRACK 4

, ID=LDVEH3 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63; PRINTED BY: mds007

;VISUAL DETECT STATUS;AGSUP;32SPF728830;060818ZJAN99;AGCON_1;DETECTION AT 32SPG713006 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; X-TANK 4; HMMWV 9; SEE 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;AGAIR;32SPF728830;060818ZJAN99;AGCON_1;DETECTION AT 32SPG713006 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; X-TANK 4; HMMWV 9; SEE 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;ENG;32SPF782998;060818ZJAN99;MANCON_6;DETECTION AT 32SPF798822 HAS BEEN TEMPORARILY LOST, TRACK 5

, ID=AGAIR

PRINTED BY: mds007

;VISUAL DETECT STATUS;ENG;32SPF782998;060818ZJAN99;MANCON_6;DETECTION AT 32SPF798822 HAS BEEN TEMPORARILY LOST, TRACK 6

, ID=AGSUP

PRINTED BY: mds007

;UNIT DEFENSIVE MISSION; INF_A1/P;32SPF781997;060819ZJAN99;MANCON_4;HAS ASSUMED DEFENSIVE MISSION DUE TO CPR (0.39168<=2.00000)
PRINTED BY: mds007

;UNIT MOVE ;INF_A2/P;32SPF758891;060819ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060819ZJAN99

PRINTED BY: mds007

;AIR RTE POINT;RCAS9;32SPG906036;060819ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;RCAS9;32SPG906036;060819ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0

PRINTED BY: mds007

;UNIT MOVE ;INF_H/P;32SPF739897;060820ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060820ZJAN99
PRINTED BY: mds007

;AIR WPN LNCH;GCAS4;32SPG697020;060820ZJAN99;MANCON_2;AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT PRINTED BY: mds007

;STATUS CHANGE;SILK3;32SPF822979;060820ZJAN99;AGCON_1; UNDER AIR ATTACK PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_GREEN; AIR_TO_SURFACE; 32SPF822979; 060820ZJAN99; MANCON 2; GCAS4;

UNIT SILK3; D-20 1 K_KILLED, 1 F_KILLED PRINTED BY: mds007

; ASSESSMENT REPORT; CG; AIR_TO_SURFACE; 32SPF822979; 060820ZJAN99; MANCON_2; GCAS4;

UNIT SILK3; D-20 1 K_KILLED, 1 F_KILLED PRINTED BY: mds007

; ASSESSMENT

REPORT; SILK3; AIR_TO_SURFACE; 32SPF822979; 060820ZJAN99; AGCON 1; GCAS4;

UNIT SILK3; D-20 1 K_KILLED, 1 F_KILLED PRINTED BY: mds007

;UNIT DEFENSIVE MISSION; INF_A2/P;32SPF742896;060820ZJAN99;MANCON_4; HAS ASSUMED DEFENSIVE MISSION DUE TO CPR (0.36644<=2.00000) PRINTED BY: mds007

;UNIT MOVE ;INF_H/P;32SPF726902;060820ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060820ZJAN99

PRINTED BY: mds007

; VISUAL DETECT; SOF; 32SPF725993; 060820ZJAN99; MANCON_6; HAVE DETECTED COMPANY SIZED LIGHT ARMOR UNIT AT 32SPF727982, TRACK 5

, ID=LDVEH1 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63;

PRINTED BY: mds007

;OBJECT DETECT;INF_H/P;32SPF726876;060820ZJAN99;MANCON_4;HAVE DETECTED STRUCTURE AT 32SPF728833; PRINTED BY: mds007

;VISUAL DETECT STATUS;HILLIFY;32SPF841931;060820ZJAN99;AGCON_1;DETECTION AT 32SPF825890 HAS BEEN LOST, TRACK 7

, ID=INF_A2/P TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT STATUS;HILLIFY;32SPF841931;060820ZJAN99;AGCON_1;DETECTION AT 32SPF789936 HAS BEEN LOST, TRACK 8

, ID=INF_A1/P TROOPS 182; SMAW 6; PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_A1/P;32SPF781997;060820ZJAN99;MANCON_4;DETECTION AT 32SPF833992 HAS BEEN LOST, TRACK 2

, ID=HILLIFY HMMWV-40MM-MG 1; TROOPS 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;SILK5;32SPF744755;060820ZJAN99;AGCON_1;DETECTION AT 32SPF708725 HAS BEEN LOST, TRACK 2

, ID=INF_A1/P TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_A1/P;32SPF781997;060820ZJAN99;MANCON_4;DETECTION AT 32SPG817027 HAS BEEN LOST, TRACK 3

, ID=SILK5 D-20 1; TROOPS 8; PRINTED BY: mds007

;AIR RTE POINT;GCAS4;32SPG906036;060820ZJAN99;MANCON_2;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;GCAS4;32SPG906036;060820ZJAN99;MANCON_2;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;UNIT MOVE ;INF_A2/P;32SPF742896;060821ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060821ZJAN99
PRINTED BY: mds007

;VISUAL DETECT STATUS;HILLIFY;32SPF841931;060821ZJAN99;AGCON_1;DETECTION AT 32SPF773938 HAS BEEN LOST, TRACK 5

, ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82;

; VISUAL DETECT STATUS; ENG; 32SPF782998; 060821ZJAN99; MANCON_6; DETECTION AT 32SPF851991 HAS BEEN LOST, TRACK 2

, ID=HILLIFY HMMWV-40MM-MG 1; TROOPS 2; PRINTED BY: mds007

; VISUAL DETECT STATUS; INF_A2/P; 32SPF724903; 060821ZJAN99; MANCON_4; DETECTION AT 32SPF747946 HAS BEEN LOST, TRACK 2

, ID=HILLIFY HMMWV-40MM-MG 1; TROOPS 2; PRINTED BY: mds007

; VISUAL DETECT STATUS; SILK5; 32SPF744755; 060821ZJAN99; AGCON_1; DETECTION AT 32SPF692722 HAS BEEN LOST, TRACK 5

, ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82; PRINTED BY: mds007

;VISUAL DETECT STATUS;ENG;32SPF782998;060821ZJAN99;MANCON_6;DETECTION AT 32SPG835031 HAS BEEN LOST, TRACK 3

, ID=SILK5 D-20 1; TROOPS 8; PRINTED BY: mds007

; VISUAL DETECT STATUS; SOF; 32SPF725993; 060821ZJAN99; MANCON_6; DETECTION AT 32SPF730738 HAS BEEN LOST, TRACK 3

, ID=LDVEH2 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63; PRINTED BY: mds007

;UNIT BARRIER STATUS;INF_H/B;32SPF842931;060821ZJAN99;MANCON_3;WITHIN BARRIER MOUNTAIN NAMED HILL PRINTED BY: mds007

;UNIT MOVE ;INF_H/B;32SPF842931;060821ZJAN99;MANCON_3;COMMENCING MOVEMENT at 060821ZJAN99
PRINTED BY: mds007

;UNIT DESTINATION ;INF_H/B;32SPF840931;060821ZJAN99;MANCON_3;HAVE REACHED ASSIGNED DESTINATION PRINTED BY: mds007

;VISUAL DETECT;AGSUP;32SPF728830;060822ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF728841, TRACK 3

, ID=INF_H/P TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT;AGAIR;32SPF728830;060822ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF728841, TRACK 3

, ID=INF_H/P TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT;AGAIR;32SPF728830;060822ZJAN99;AGCON_1;HAVE DETECTED SECTION SIZED INFANTRY UNIT AT 32SPF725871, TRACK 4

, ID=INF A2/P

;VISUAL DETECT;SILK5;32SPF714839;060822ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF727845, TRACK 6

, ID=INF_H/P TROOPS 182; PRINTED BY: mds007

; VISUAL DETECT; SILK5; 32SPF714839; 060822ZJAN99; AGCON_1; HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF724873, TRACK 7

, ID=INF_A2/P PRINTED BY: mds007

;VISUAL DETECT;INF_H/P;32SPF729845;060822ZJAN99;MANCON_4;HAVE DETECTED SQUADRON SIZED AVIATION UNIT AT 32SPF728834, TRACK 3

, ID=AGAIR TROOPS 267; PRINTED BY: mds007

;VISUAL DETECT;INF_H/P;32SPF729845;060822ZJAN99;MANCON_4;HAVE DETECTED COMPANY SIZED SUPPLY UNIT AT 32SPF728834, TRACK 4

, ID=AGSUP TROOPS 180; PRINTED BY: mds007

;VISUAL DETECT;INF_H/P;32SPF729845;060822ZJAN99;MANCON_4;HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPF716840, TRACK 5

, ID=SILK5 D-20 1; TROOPS 8; PRINTED BY: mds007

;VISUAL DETECT;INF_A2/P;32SPF725876;060822ZJAN99;MANCON_4;HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPF715842, TRACK 4

, ID=SILK5 D-20 1; PRINTED BY: mds007

; VISUAL DETECT STATUS; SILK5; 32SPF714839; 060822ZJAN99; AGCON_1; DETECTION AT 32SPF769646 HAS BEEN LOST, TRACK 3

, ID=INF_H/B TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT STATUS;SILK5;32SPF714839;060822ZJAN99;AGCON_1;DETECTION AT 32SPF916748 HAS BEEN LOST, TRACK 4

, ID=AAAV2 AAAV 1; PRINTED BY: mds007

; VISUAL DETECT STATUS; INF_H/B; 32SPF840931; 060822ZJAN99; MANCON_3; DETECTION AT 32SPG786124 HAS BEEN LOST, TRACK 3

, ID=SILK5 D-20 1; TROOPS 8; PRINTED BY: mds007

;VISUAL DETECT STATUS;SOF;32SPF725992;060822ZJAN99;MANCON_6;DETECTION AT 32SPF769748 HAS BEEN TEMPORARILY LOST, TRACK 5

, ID=LDVEH1 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63;

;VISUAL DETECT;AGSUP;32SPF728830;060823ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPF728842, TRACK 4

, ID=INF_A2/P TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT CHANGE;AGAIR;32SPF728830;060823ZJAN99;AGCON_1;DETECTION AT 32SPF728841 IS A COMPANY SIZED INFANTRY UNIT, TRACK 4

, ID=INF_A2/P TROOPS 182; PRINTED BY: mds007

;OBJECT DETECT;SILK4;32SPG817041;060823ZJAN99;AGCON_1;HAVE DETECTED ANTI_PERSONNEL Minefield [% 0 DAMAGED] AT 32SPG816049; PRINTED BY: mds007

;OBJECT DETECT;SILK4;32SPG817041;060823ZJAN99;AGCON_1;HAVE DETECTED STRUCTURE AT 32SPG804064;
PRINTED BY: mds007

;OBJECT DETECT;SILK4;32SPG817041;060823ZJAN99;AGCON_1;HAVE DETECTED STRUCTURE AT 32SPG820051;
PRINTED BY: mds007

; VISUAL DETECT; SILK4; 32SPG817041; 060823ZJAN99; AGCON_1; HAVE DETECTED COMPANY SIZED ENGINEER UNIT AT 32SPG795040, TRACK 3

, ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82; PRINTED BY: mds007

;VISUAL DETECT;SILK4;32SPG817041;060823ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED INFANTRY UNIT AT 32SPG793037, TRACK 4

, ID=INF_A1/P TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT CHANGE;SILK5;32SPF714839;060823ZJAN99;AGCON_1;DETECTION AT 32SPF726845 IS A COMPANY SIZED INFANTRY UNIT, TRACK 7

, ID=INF_A2/P TROOPS 182; PRINTED BY: mds007

;OBJECT DETECT;ENG;32SPG793041;060823ZJAN99;MANCON_6;HAVE DETECTED STRUCTURE AT 32SPG803064;
PRINTED BY: mds007

;OBJECT DETECT;ENG;32SPG793041;060823ZJAN99;MANCON_6;HAVE DETECTED STRUCTURE AT 32SPG820051;
PRINTED BY: mds007

; VISUAL DETECT; ENG; 32SPG793041; 060823ZJAN99; MANCON_6; HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPG816040, TRACK 7

, ID=SILK4 TROOPS 8; PRINTED BY: mds007

;OBJECT DETECT;INF_A1/P;32SPG791036;060823ZJAN99;MANCON_4;HAVE DETECTED STRUCTURE AT 32SPG803064;
PRINTED BY: mds007

;OBJECT DETECT;INF_A1/P;32SPG791036;060823ZJAN99;MANCON_4;HAVE DETECTED STRUCTURE AT 32SPG820051;
PRINTED BY: mds007

; VISUAL DETECT; INF_A1/P; 32SPG791036; 060823ZJAN99; MANCON_4; HAVE DETECTED SECTION SIZED ARTILLERY UNIT AT 32SPG816040, TRACK 5

, ID=SILK4 TROOPS 8; PRINTED BY: mds007

; VISUAL DETECT; INF A2/P; 32SPF728845; 060823ZJAN99; MANCON_4; HAVE DETECTED SOUADRON SIZED AVIATION UNIT AT 32SPF728834, TRACK 5

, ID=AGAIR TROOPS 267; PRINTED BY: mds007

; VISUAL DETECT; INF_A2/P; 32SPF728845; 060823ZJAN99; MANCON_4; HAVE DETECTED COMPANY SIZED SUPPLY UNIT AT 32SPF728833, TRACK 6

, ID=AGSUP TROOPS 180; PRINTED BY: mds007

;VISUAL DETECT CHANGE;INF_A2/P;32SPF728845;060823ZJAN99;MANCON_4;DETECTION AT 32SPF716840 IS A SECTION SIZED ARTILLERY UNIT, TRACK 4

, ID=SILK5 D-20 1; TROOPS 8; PRINTED BY: mds007

;VISUAL DETECT STATUS;HILLIFY;32SPF841931;060823ZJAN99;AGCON_1;DETECTION AT 32SPF836888 HAS BEEN LOST, TRACK 6

, ID=INF_H/P TROOPS 182; PRINTED BY: mds007

;REPORT; GROUND ENGAGEMENT 1;32SPF841931;060823ZJAN99;MANCON 3,AGCON 1;

Initial engagement times:

INF H/B; 060803ZJAN99

HILLIFY; 060803ZJAN99

Cumulative losses:

UNIT INF_H/B; TROOPS 13 WIA, UNIT AGSUP; No damage assessed. UNIT AGSUP; No damage assessed.

UNIT HILLIFY; TROOPS 1 WIA,

Incremental losses (increases since the last report)

UNIT INF H/B; TROOPS 8 WIA,

PRINTED BY: mds007

;UNIT DEFENSIVE MISSION ;AGSUP;32SPF728830;060823ZJAN99;AGCON_1;HAS ASSUMED WITHDRAW MISSION DUE TO CPR (0.00000<=0.17000) PRINTED BY: mds007

;UNIT DEFENSIVE MISSION;SILK5;32SPF714839;060823ZJAN99;AGCON_1;HAS ASSUMED WITHDRAW MISSION DUE TO CPR (0.00000<=0.17000) PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_H/P;32SPF729845;060823ZJAN99;MANCON_4;HAS INITIATED ENGAGEMENT WITH AGAIR PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_H/P;32SPF729845;060823ZJAN99;MANCON_4;HAS INITIATED ENGAGEMENT WITH AGSUP PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; INF_H/P; 32SPF729845; 060823ZJAN99; MANCON_4; HAS INITIATED ENGAGEMENT WITH SILK5
PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; INF_A1/P; 32SPG791036; 060823ZJAN99; MANCON_4; HAS INITIATED ENGAGEMENT WITH SILK4
PRINTED BY: mds007

;UNIT MOVE ;AGSUP;32SPF728830;060823ZJAN99;AGCON_1;COMMENCING MOVEMENT at 060823ZJAN99
PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_A2/P;32SPF728845;060823ZJAN99;MANCON_4;HAS INITIATED ENGAGEMENT WITH SILK5
PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_A2/P;32SPF728845;060823ZJAN99;MANCON_4;HAS INITIATED ENGAGEMENT WITH AGAIR PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_A2/P;32SPF728845;060823ZJAN99;MANCON_4;HAS INITIATED ENGAGEMENT WITH AGSUP PRINTED BY: mds007

;UNIT MOVE ;SILK5;32SPF714839;060823ZJAN99;AGCON_1;TOWING REQUIREMENTS NOT MET PRINTED BY: mds007

;AIR WPN LNCH;RCAS10;32SPF847978;060823ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT PRINTED BY: mds007

;ASSESSMENT REPORT;VF_RED;AIR_TO_SURFACE;32SPF847978;060823ZJAN99;MANCON_5; NO ASSESSMENT; Msn# RCAS10

PRINTED BY: mds007

; ASSESSMENT REPORT; SOF; AIR_TO_SURFACE; 32SPF847978; 060823ZJAN99; MANCON 6;

NO ASSESSMENT; Msn# RCAS10

PRINTED BY: mds007

;UNIT MOVE ;INF_H/P;32SPF729845;060823ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060823ZJAN99
PRINTED BY: mds007

;UNIT DESTINATION ;INF_H/P;32SPF728830;060823ZJAN99;MANCON_4;HAVE REACHED ASSIGNED DESTINATION PRINTED BY: mds007

;UNIT MOVE ;INF_A1/P;32SPG791036;060823ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060823ZJAN99
PRINTED BY: mds007

;VISUAL DETECT CHANGE;AGSUP;32SPF728829;060823ZJAN99;AGCON_1;DETECTION AT 32SPF728830 IS A COMPANY SIZED INFANTRY UNIT, TRACK 3

, ID=INF_H/P TROOPS 182; SMAW 6; PRINTED BY: mds007

;VISUAL DETECT CHANGE;AGAIR;32SPF728830;060823ZJAN99;AGCON_1;DETECTION AT 32SPF728830 IS A COMPANY SIZED INFANTRY UNIT, TRACK 3

, ID=INF H/P TROOPS 182; AT4-US 9; 60MM-MTR 3; M-16 132; SAW 27; M-203 27; M240-MG $\overline{6}$; SMAW 6; PRINTED BY: mds007

;VISUAL DETECT CHANGE;SILK4;32SPG817041;060823ZJAN99;AGCON_1;DETECTION AT 32SPG809046 IS A COMPANY SIZED ENGINEER UNIT, TRACK 3

, ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82; SMAW 9; PRINTED BY: mds007

;OBJECT DETECT;ENG;32SPG807046;060823ZJAN99;MANCON_6;HAVE DETECTED ANTI_PERSONNEL Minefield [% 0 DAMAGED] AT 32SPG814049; PRINTED BY: mds007

;VISUAL DETECT CHANGE;INF_H/P;32SPF728830;060823ZJAN99;MANCON_4;DETECTION AT 32SPF728830 IS A SQUADRON SIZED AIR SQUADRON UNIT, TRACK 3

, ID=AGAIR TROOPS 267; M-16 219; PRINTED BY: mds007

;AIR RTE POINT;RCAS10;32SPG906036;060823ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;RCAS10;32SPG906036;060823ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0

PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;AGAIR;32SPF728830;060824ZJAN99;AGCON_1;HAS INITIATED ENGAGEMENT WITH INF_H/P PRINTED BY: mds007

;UNIT DEFENSIVE MISSION ;SILK4;32SPG817041;060824ZJAN99;AGCON_1;HAS ASSUMED WITHDRAW MISSION DUE TO CPR (0.00000<=0.17000) PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; ENG; 32SPG807046; 060824ZJAN99; MANCON_6; HAS INITIATED ENGAGEMENT WITH SILK4
PRINTED BY: mds007

;UNIT MOVE ;SILK4;32SPG817041;060824ZJAN99;AGCON_1;TOWING REQUIREMENTS NOT MET PRINTED BY: mds007

;AIR WPN LNCH;GCAS5;32SPG697020;060824ZJAN99;MANCON_2;AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT

PRINTED BY: mds007

;STATUS CHANGE;SILK5;32SPF714839;060824ZJAN99;AGCON_1; UNDER AIR ATTACK PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_GREEN; AIR_TO_SURFACE; 32SPF714839; 060824ZJAN99; MANCON 2; GCAS5;

UNIT SILK5; D-20 1 K_KILLED, PRINTED BY: mds007

; ASSESSMENT REPORT; CG; AIR_TO_SURFACE; 32SPF714839; 060824ZJAN99; MANCON_2; GCAS5;

UNIT SILK5; D-20 1 K_KILLED, PRINTED BY: mds007

; ASSESSMENT

REPORT; SILK5; AIR_TO_SURFACE; 32SPF714839; 060824ZJAN99; AGCON 1; GCAS5;

UNIT SILK5; D-20 1 K_KILLED, PRINTED BY: mds007

;VISUAL DETECT;LDVEH2;32SPG729015;060824ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED ENGINEER UNIT AT 32SPF748999, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82; PRINTED BY: mds007

;VISUAL DETECT;LDVEH3;32SPF725977;060824ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED ENGINEER UNIT AT 32SPF748996, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82; PRINTED BY: mds007

;VISUAL DETECT;SOF;32SPF725991;060824ZJAN99;MANCON_6;HAVE DETECTED COMPANY SIZED LIGHT_ARMOR UNIT AT 32SPG729013, TRACK 6

, ID=LDVEH2 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS -63;

PRINTED BY: mds007

;VISUAL DETECT;ENG;32SPF750997;060824ZJAN99;MANCON_6;HAVE DETECTED COMPANY SIZED LIGHT_ARMOR UNIT AT 32SPF728979, TRACK 8

, ID=LDVEH3 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63;

PRINTED BY: mds007

;VISUAL DETECT; ENG; 32SPF750997; 060824ZJAN99; MANCON_6; HAVE DETECTED COMPANY SIZED LIGHT ARMOR UNIT AT 32SPG732013, TRACK 9

, ID=LDVEH2 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63;

PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_H/P;32SPF728830;060824ZJAN99;MANCON_4;DETECTION AT 32SPF755879 HAS BEEN LOST, TRACK 2

, ID=HILLIFY HMMWV-40MM-MG 1; TROOPS 2;

- ;VISUAL DETECT STATUS;TANK1;32SPF717763;060824ZJAN99;AGCON_1;DETECTION AT 32SPF855731 HAS BEEN LOST, TRACK 2
- , ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82; PRINTED BY: mds007
- ;VISUAL DETECT STATUS;TANK1;32SPF717763;060824ZJAN99;AGCON_1;DETECTION AT 32SPF852740 HAS BEEN LOST, TRACK 3
- , ID=INF_A2/P TROOPS 182; SMAW 6; PRINTED BY: mds007
- ;VISUAL DETECT STATUS;ENG;32SPF750997;060824ZJAN99;MANCON_6;DETECTION AT 32SPG613029 HAS BEEN LOST, TRACK 4
- , ID=TANK1 HMMWV-TOW 8; M1A1 14; TROOPS 4; PRINTED BY: mds007
- ;VISUAL DETECT STATUS;INF_A2/P;32SPF728845;060824ZJAN99;MANCON_4;DETECTION AT 32SPF593868 HAS BEEN LOST, TRACK 3
- , ID=TANK1 HMMWV-TOW 8; M1A1 14; TROOPS 4; PRINTED BY: mds007
- ;VISUAL DETECT STATUS;SILK4;32SPG817041;060824ZJAN99;AGCON_1;DETECTION AT 32SPG749081 HAS BEEN TEMPORARILY LOST, TRACK 3
- , ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82; SMAW 9; PRINTED BY: mds007
- ;VISUAL DETECT STATUS;ENG;32SPF750997;060824ZJAN99;MANCON_6;DETECTION AT 32SPF819956 HAS BEEN TEMPORARILY LOST, TRACK 7
- , ID=SILK4 TROOPS 8; PRINTED BY: mds007
- ; ENGAGEMENT STATUS CHANGE; AGAIR; 32SPF728830; 060825ZJAN99; AGCON_1; IS ENGAGED BY INF A2/P

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; AGSUP; 32SPF728829; 060825ZJAN99; AGCON_1; IS ENGAGED BY INF H/P

PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE;AGSUP;32SPF728829;060825ZJAN99;AGCON_1;IS ENGAGED BY INF A2/P

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; SILK5; 32SPF714839; 060825ZJAN99; AGCON_1; IS ENGAGED BY INF H/P

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; SILK5; 32SPF714839; 060825ZJAN99; AGCON_1; IS ENGAGED BY INF A2/P

PRINTED BY: mds007

;UNIT CASUALTY LIMIT ;AGSUP;32SPF728829;060825ZJAN99;AGCON_1;HAS REACHED EFFECTIVE CASUALTY LIMIT

PRINTED BY: mds007

; REPORT; GROUND ENGAGEMENT 4; 32SPF728845; 060825ZJAN99; AGCON 1, MANCON 4;

Initial engagement times:

AGAIR; 060824ZJAN99

INF H/P; 060823ZJAN99

AGSUP; 060823ZJAN99

SILK5; 060823ZJAN99

INF A2/P; 060823ZJAN99

Cumulative losses:

UNIT AGAIR; TROOPS 37 WIA,

UNIT SILK5; TROOPS 2 WIA,

UNIT AGSUP; TROOPS 125 WIA, 11 KIA

UNIT INF H/P; TROOPS 60 WIA,

Incremental losses (increases since the last report)

UNIT INF H/P; TROOPS 60 WIA,

UNIT AGSUP; TROOPS 125 WIA, 11 KIA

UNIT AGAIR; TROOPS 37 WIA,

UNIT SILK5; TROOPS 2 WIA,

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;UNIT MOVE ;AGSUP;32SPF728829;060825ZJAN99;AGCON 1;NOT ENOUGH TROOPS FOR

MOVEMENT

PRINTED BY: mds007

;UNIT MOVE ;INF_A2/P;32SPF728845;060825ZJAN99;MANCON_4;COMMENCING MOVEMENT at

060825ZJAN99

PRINTED BY: mds007

;UNIT DESTINATION ;INF_A2/P;32SPF727830;060825ZJAN99;MANCON_4;HAVE REACHED

ASSIGNED DESTINATION

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; SILK4; 32SPG817041; 060825ZJAN99; AGCON_1; IS ENGAGED BY

INF A1/P

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; SILK4; 32SPG817041; 060825ZJAN99; AGCON 1; IS ENGAGED BY

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; SILK4; 32SPG817041; 060825ZJAN99; AGCON 1; HAS

TERMINATED ENGAGEMENT, NO LOS WITH ENG

PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;ENG;32SPF750997;060825ZJAN99;MANCON_6;HAS TERMINATED ENGAGEMENT, NO LOS WITH SILK4 PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;LDVEH2;32SPG729015;060825ZJAN99;AGCON_1;HAS INITIATED ENGAGEMENT WITH ENG PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;LDVEH3;32SPF725977;060825ZJAN99;AGCON_1;HAS INITIATED ENGAGEMENT WITH ENG PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;ENG;32SPF750997;060825ZJAN99;MANCON_6;HAS TERMINATED ENGAGEMENT, NO LOS WITH SILK4 PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; SILK4; 32SPG817041; 060825ZJAN99; AGCON_1; HAS TERMINATED ENGAGEMENT, NO LOS WITH ENG PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; ENG; 32SPF750997; 060825ZJAN99; MANCON_6; IS ENGAGED BY LDVEH2

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; ENG; 32SPF750997; 060825ZJAN99; MANCON_6; IS ENGAGED BY LDVEH3

PRINTED BY: mds007

;REPORT; GROUND_ENGAGEMENT
5;32SPF725977;060825ZJAN99;AGCON_1,MANCON_4,MANCON_6;

Initial engagement times:

SILK4; 060824ZJAN99

INF A1/P; 060823ZJAN99

ENG; 060824ZJAN99

LDVEH2; 060825ZJAN99

LDVEH3; 060825ZJAN99

Cumulative losses:

UNIT SILK4; TROOPS 1 WIA, UNIT AGSUP; No damage assessed.

Incremental losses (increases since the last report)

UNIT SILK4; TROOPS 1 WIA,

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;VISUAL DETECT CHANGE; AGSUP; 32SPF728829; 060825ZJAN99; AGCON_1; DETECTION AT 32SPF728829 IS A COMPANY SIZED INFANTRY UNIT, TRACK 4

, ID=INF_A2/P TROOPS 182; AT4-US 9; 60MM-MTR 3; M-16 132; SAW 27; M-203 27; M240-MG 6; SMAW 6; PRINTED BY: mds007

;VISUAL DETECT CHANGE;AGAIR;32SPF728830;060825ZJAN99;AGCON_1;DETECTION AT 32SPF728830 IS A COMPANY SIZED INFANTRY UNIT, TRACK 4

, ID=INF_A2/P TROOPS 182; AT4-US 9; 60MM-MTR 3; M-16 132; SAW 27; M-203 27; M240-MG 6; SMAW 6; PRINTED BY: mds007

;VISUAL DETECT CHANGE;INF_A2/P;32SPF727830;060825ZJAN99;MANCON_4;DETECTION AT 32SPF727830 IS A SQUADRON SIZED AIR_SQUADRON UNIT, TRACK 5

, ID=AGAIR TROOPS 244; M-16 219; PRINTED BY: mds007

;VISUAL DETECT STATUS;TANK2;32SPF680763;060825ZJAN99;AGCON_1;DETECTION AT 32SPF620515 HAS BEEN LOST, TRACK 2

, ID=INF_A1/P TROOPS 182; PRINTED BY: mds007

; VISUAL DETECT STATUS; INF_A1/P; 32SPG806045; 060825ZJAN99; MANCON_4; DETECTION AT 32SPG866293 HAS BEEN LOST, TRACK 4

, ID=TANK2 HMMWV-TOW 8; M1A1 13; PRINTED BY: mds007

;AIR RTE POINT;AA86;32SPF625617;060825ZJAN99;AGCON_1;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;AA86;32SPF625617;060825ZJAN99;AGCON_1;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;AIR RTE POINT;GCAS5;32SPG906036;060825ZJAN99;MANCON_2;AIR MISSION HAS-REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;GCAS5;32SPG906036;060825ZJAN99;MANCON_2;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;AIR WPN LNCH;RCAS11;32SPF847978;060825ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT PRINTED BY: mds007

;STATUS CHANGE;LDVEH3;32SPF725977;060825ZJAN99;AGCON_1; UNDER AIR ATTACK PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_RED; AIR_TO_SURFACE; 32SPF725977; 060825ZJAN99; MANCON_5; RCAS11;

UNIT LDVEH3; TROOPS 12 WIA, 4 KIA

UNIT LDVEH3; LAV-MTR 2 K_KILLED, PRINTED BY: mds007

; ASSESSMENT

REPORT; SOF; AIR_TO_SURFACE; 32SPF725977; 060825ZJAN99; MANCON 6; RCAS11;

UNIT LDVEH3; TROOPS 12 WIA, 4 KIA

UNIT LDVEH3; LAV-MTR 2 K_KILLED,

PRINTED BY: mds007

; ASSESSMENT

REPORT; LDVEH3; AIR_TO_SURFACE; 32SPF725977; 060825ZJAN99; AGCON_1; RCAS11;

UNIT LDVEH3; TROOPS 12 WIA, 4 KIA

UNIT LDVEH3; LAV-MTR 2 K_KILLED,

PRINTED BY: mds007

;UNIT BARRIER STATUS;INF_H/B;32SPF840931;060825ZJAN99;MANCON_3;WITHIN BARRIER MOUNTAIN NAMED HILL PRINTED BY: mds007

;UNIT MOVE ;INF_H/B;32SPF840931;060825ZJAN99;MANCON_3;COMMENCING MOVEMENT at 060825ZJAN99

PRINTED BY: mds007

;AIR RTE POINT;GCAS20;32SPG817041;060825ZJAN99;MANCON_2;AIR MISSION HAS REACHED ATTACK POINT PRINTED BY: mds007

;STATUS CHANGE;SILK4;32SPG817041;060825ZJAN99;AGCON_1; RECEIVING AIR-TO-SURFACE FIRE PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_GREEN; AIR_TO_SURFACE; 31NAA661000; 060825ZJAN99; MANCON_2; GCAS20;

CE PRODUCT NORTH RD; No damage assessed.

TROOPS 1 WIA,

PRINTED BY: mds007

;ASSESSMENT REPORT;CG;AIR TO SURFACE;31NAA661000;060825ZJAN99;MANCON_2;GCAS20;

CE PRODUCT NORTH RD; No damage assessed.

TROOPS 1 WIA,

PRINTED BY: mds007

; VISUAL DETECT CHANGE; AGAIR1; 32SPF602645; 060826ZJAN99; AGCON_1; DETECTION AT 32SPF623620 IS A SQUADRON SIZED AIR SQUADRON UNIT, TRACK 2

, ID=COMAIR BOEING-747 48; PRINTED BY: mds007

;VISUAL DETECT STATUS;SILK5;32SPF717752;060826ZJAN99;AGCON_1;DETECTION AT 32SPF781707 HAS BEEN TEMPORARILY LOST, TRACK 6

, ID=INF_H/P TROOPS 142; PRINTED BY: mds007

;VISUAL DETECT STATUS;SILK5;32SPF717752;060826ZJAN99;AGCON_1;DETECTION AT 32SPF779705 HAS BEEN TEMPORARILY LOST, TRACK 7

, ID=INF A2/P TROOPS 182; PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_H/P;32SPF728830;060826ZJAN99;MANCON_4;DETECTION AT 32SPF665875 HAS BEEN TEMPORARILY LOST, TRACK 5

, ID=SILK5 TROOPS 7; PRINTED BY: mds007

;VISUAL DETECT STATUS;INF_A2/P;32SPF727830;060826ZJAN99;MANCON_4;DETECTION AT 32SPF666877 HAS BEEN TEMPORARILY LOST, TRACK 4

, ID=SILK5 TROOPS 7; PRINTED BY: mds007

;AIR WPN LNCH;RCAS12;32SPF847978;060826ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT PRINTED BY: mds007

; ASSESSMENT

REPORT; VF_RED; AIR_TO_SURFACE; 31NAA661000; 060826ZJAN99; MANCON 5; RCAS12;

CE_PRODUCT BR2; CE Product damage level increased 99 percent. PRINTED BY: mds007

; ASSESSMENT

REPORT; SOF; AIR_TO_SURFACE; 31NAA661000; 060826ZJAN99; MANCON 6; RCAS12;

CE_PRODUCT BR2; CE Product damage level increased 99 percent. PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;SILK5;32SPF717752;060826ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_H/P PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_H/P;32SPF728830;060826ZJAN99;MANCON_4;HAS TERMINATED ENGAGEMENT, NO LOS WITH SILK5 PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;SILK5;32SPF717752;060826ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_A2/P PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_A2/P;32SPF727830;060826ZJAN99;MANCON_4;HAS TERMINATED ENGAGEMENT, NO LOS WITH SILK5 PRINTED BY: mds007

;AIR RTE POINT;GCAS20;32SPG906036;060826ZJAN99;MANCON_2;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;GCAS20;32SPG906036;060826ZJAN99;MANCON_2;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;AIR RTE POINT;RCAS11;32SPG906036;060826ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;RCAS11;32SPG906036;060826ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0

PRINTED BY: mds007

;AIR WPN LNCH;GCAS6;32SPG697020;060826ZJAN99;MANCON_2;AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT PRINTED BY: mds007

;ASSESSMENT REPORT;VF_GREEN;AIR_TO_SURFACE;32SPG697020;060826ZJAN99;MANCON_2;

NO ASSESSMENT; Msn# GCAS6

PRINTED BY: mds007

;ASSESSMENT REPORT;CG;AIR TO SURFACE;32SPG697020;060826ZJAN99;MANCON 2;

NO ASSESSMENT; Msn# GCAS6

PRINTED BY: mds007

;UNIT MOVE ;INF_A2/P;32SPF727830;060826ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060826ZJAN99

PRINTED BY: mds007

;UNIT DESTINATION ;INF_A2/P;32SPF727829;060826ZJAN99;MANCON_4;HAVE REACHED ASSIGNED DESTINATION PRINTED BY: mds007

;VISUAL DETECT STATUS;SOF;32SPF725991;060826ZJAN99;MANCON_6;DETECTION AT 32SPF736747 HAS BEEN TEMPORARILY LOST, TRACK 4

, ID=LDVEH3 LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 67; PRINTED BY: mds007

;VISUAL DETECT STATUS;LDVEH2;32SPF692748;060826ZJAN99;AGCON_1;DETECTION AT 32SPF804526 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82; PRINTED BY: mds007

;VISUAL DETECT STATUS;LDVEH3;32SPF692748;060826ZJAN99;AGCON_1;DETECTION AT 32SPF869925 HAS BEEN TEMPORARILY LOST, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; ACE 4; HMMWV 9; SEE 2; TROOPS 82; PRINTED BY: mds007

; VISUAL DETECT STATUS; SOF; 32SPF725991; 060826ZJAN99; MANCON_6; DETECTION AT 32SPG772230 HAS BEEN TEMPORARILY LOST, TRACK 6

, ID=LDVEH2 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63; PRINTED BY: mds007

;VISUAL DETECT STATUS;ENG;32SPF740993;060826ZJAN99;MANCON_6;DETECTION AT 32SPF564816 HAS BEEN TEMPORARILY LOST, TRACK 8

, ID=LDVEH3 LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 67;

PRINTED BY: mds007

;VISUAL DETECT STATUS;ENG;32SPF740993;060826ZJAN99;MANCON_6;DETECTION AT 32SPG629215 HAS BEEN TEMPORARILY LOST, TRACK 9

, ID=LDVEH2 LAV-MTR 2; LAV-LOG 3; LAV-COMMAND 1; LAV-AT 4; LAV-25 13; TROOPS 63;

PRINTED BY: mds007

;AIR RTE POINT;RCAS12;32SPG906036;060826ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;RCAS12;32SPG906036;060826ZJAN99;MANCON_5,MANCON_6;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0

PRINTED BY: mds007

;UNIT CASUALTY LIMIT ;INF_H/P;32SPF728830;060827ZJAN99;MANCON_4;HAS REACHED EFFECTIVE CASUALTY LIMIT PRINTED BY: mds007

;UNIT DEFENSIVE MISSION ;SILK4;32SPF764745;060827ZJAN99;AGCON_1;HAS ASSUMED WITHDRAW MISSION DUE TO CPR (0.00000<=0.17000) PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;LDVEH2;32SPF692748;060827ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH ENG PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;ENG;32SPF740993;060827ZJAN99;MANCON_6;HAS TERMINATED ENGAGEMENT, NO LOS WITH LDVEH2 PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ;LDVEH3;32SPF692748;060827ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH ENG PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; ENG; 32SPF740993; 060827ZJAN99; MANCON_6; HAS TERMINATED ENGAGEMENT, NO LOS WITH LDVEH3 PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; ENG; 32SPF740993; 060827ZJAN99; MANCON_6; HAS TERMINATED ENGAGEMENT, NO LOS WITH LDVEH3 PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;LDVEH3;32SPF692748;060827ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH ENG PRINTED BY: mds007

;VISUAL DETECT;AGSUP;32SPF728829;060827ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED MEDICAL UNIT AT 32SPF730830, TRACK 5

, ID=MED2 TRAILER-WATER-300G 3; 5.0-TRUCK 3; HMMWV-AMBUL 9; HMMWV 3; TROOPS 201; .50CAL-MG 1; PRINTED BY: mds007

;VISUAL DETECT;AGAIR;32SPF728830;060827ZJAN99;AGCON_1;HAVE DETECTED COMPANY SIZED MEDICAL UNIT AT 32SPF729830, TRACK 5

- , ID=MED2 TRAILER-WATER-300G 3; 5.0-TRUCK 3; HMMWV-AMBUL 9; HMMWV 3; TROOPS 201; .50CAL-MG 1; PRINTED BY: mds007
- ;OBJECT DETECT;MED2;32SPF732833;060827ZJAN99;MANCON_3;HAVE DETECTED STRUCTURE AT 32SPF729832;
 PRINTED BY: mds007
- ;VISUAL DETECT;MED2;32SPF732833;060827ZJAN99;MANCON_3;HAVE DETECTED SQUADRON SIZED AVIATION UNIT AT 32SPF731832, TRACK 2
- , ID=AGAIR TROOPS 223; PRINTED BY: mds007
- ; VISUAL DETECT; MED2; 32SPF732833; 060827ZJAN99; MANCON_3; HAVE DETECTED COMPANY SIZED SUPPLY UNIT AT 32SPF730831, TRACK 3
- , ID=AGSUP TROOPS 46; PRINTED BY: mds007
- ;VISUAL DETECT STATUS;SILK4;32SPF764745;060827ZJAN99;AGCON_1;DETECTION AT 32SPF847951 HAS BEEN LOST, TRACK 2
- , ID=AAAV1 AAAV 1; PRINTED BY: mds007
- ;VISUAL DETECT STATUS;AGSUP;32SPF728829;060827ZJAN99;AGCON_1;DETECTION AT 32SPG729059 HAS BEEN TEMPORARILY LOST, TRACK 3
- , ID=INF_H/P TROOPS 142; SMAW 6; PRINTED BY: mds007
- ;VISUAL DETECT STATUS;AGAIR;32SPF728830;060827ZJAN99;AGCON_1;DETECTION AT 32SPG724059 HAS BEEN TEMPORARILY LOST, TRACK 3
- , ID=INF_H/P TROOPS 142; AT4-US 9; 60MM-MTR 3; M-16 132; SAW 27; M-203 27; M240-MG 6; SMAW 6; PRINTED BY: mds007
- ;VISUAL DETECT STATUS;INF_H/P;32SPG805045;060827ZJAN99;MANCON_4;DETECTION AT 32SPG801275 HAS BEEN TEMPORARILY LOST, TRACK 3
- , ID=AGAIR TROOPS 244; M-16 219; PRINTED BY: mds007
- ;VISUAL DETECT STATUS;INF_H/P;32SPG805045;060827ZJAN99;MANCON_4;DETECTION AT 32SPF806815 HAS BEEN TEMPORARILY LOST, TRACK 4
- , ID=AGSUP TROOPS 71; PRINTED BY: mds007
- ; VISUAL DETECT STATUS; SILK4; 32SPF764745; 060827ZJAN99; AGCON_1; DETECTION AT 32SPF488871 HAS BEEN TEMPORARILY LOST, TRACK 4
- , ID=INF_A1/P TROOPS 182; PRINTED BY: mds007
- ;VISUAL DETECT STATUS;INF_A1/P;32SPG806045;060827ZJAN99;MANCON_4;DETECTION AT 32SQF083920 HAS BEEN TEMPORARILY LOST, TRACK 5
- , ID=SILK4 TROOPS 8;

PRINTED BY: mds007

;AIR RTE POINT;GCAS6;32SPG906036;060827ZJAN99;MANCON_2;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007

;AIRCRAFT STAT;GCAS6;32SPG906036;060827ZJAN99;MANCON_2;AIR MISSION HAS FOL AIRCRAFT STATUS - UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007

;AIR WPN LNCH;GCAS7;32SPF730885;060827ZJAN99;MANCON_2;AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT PRINTED BY: mds007

;ASSESSMENT REPORT;VF_GREEN;AIR_TO_SURFACE;32SPF730885;060827ZJAN99;MANCON_2; NO ASSESSMENT; Msn# GCAS7

PRINTED BY: mds007

;ASSESSMENT REPORT;CG;AIR_TO_SURFACE;32SPF730885;060827ZJAN99;MANCON_2; NO ASSESSMENT; Msn# GCAS7

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; AGSUP; 32SPF728829; 060828ZJAN99; AGCON_1; HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_H/P PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;INF_H/P;32SPG805045;060828ZJAN99;MANCON_4;HAS TERMINATED ENGAGEMENT, NO LOS WITH AGSUP PRINTED BY: mds007

;UNIT DEFENSIVE MISSION; AGAIR; 32SPF728830; 060828ZJAN99; AGCON_1; HAS ASSUMED WITHDRAW MISSION DUE TO CPR (0.15878<=0.17000) PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;AGAIR;32SPF728830;060828ZJAN99;AGCON_1;HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_H/P PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; INF_H/P; 32SPG805045; 060828ZJAN99; MANCON_4; HAS TERMINATED ENGAGEMENT, NO LOS WITH AGAIR PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;AGAIR;32SPF728830;060828ZJAN99;AGCON_1;HAS INITIATED ENGAGEMENT WITH MED2
PRINTED BY: mds007

;UNIT MOVE ;AGAIR;32SPF728830;060828ZJAN99;AGCON_1;COMMENCING MOVEMENT at 060828ZJAN99
PRINTED BY: mds007

;UNIT DEFENSIVE MISSION ;SILK4;32SPF764745;060828ZJAN99;AGCON_1;HAS ASSUMED DEFENSIVE MISSION PRINTED BY: mds007

;REPORT; GROUND ENGAGEMENT 5;32SPG806045;060828ZJAN99;AGCON_1,MANCON_4;

Initial engagement times:

SILK4; 060824ZJAN99

INF A1/P; 060823ZJAN99

Cumulative losses:

UNIT SILK4; TROOPS 2 WIA, UNIT AGSUP; No damage assessed.

Incremental losses (increases since the last report)

UNIT SILK4; TROOPS 1 WIA,

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; SILK4; 32SPF764745; 060828ZJAN99; AGCON_1; HAS TERMINATED ENGAGEMENT, NO LOS WITH INF_A1/P PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE ; INF_A1/P; 32SPG806045; 060828ZJAN99; MANCON_4; HAS TERMINATED ENGAGEMENT, NO LOS WITH SILK4 PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;MED2;32SPF732833;060828ZJAN99;MANCON_3;HAS INITIATED ENGAGEMENT WITH AGAIR PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE; MED2;32SPF732833;060828ZJAN99; MANCON_3; HAS INITIATED ENGAGEMENT WITH AGSUP PRINTED BY: mds007

;VISUAL DETECT CHANGE;AGAIR;32SPF729830;060828ZJAN99;AGCON_1;DETECTION AT 32SPF729830 IS A COMPANY SIZED MEDICAL UNIT, TRACK 5

, ID=MED2 TRAILER-WATER-300G 3; 5.0-TRUCK 3; HMMWV-AMBUL 9; HMMWV 3; TROOPS 201; .50CAL-MG 1; SAW 2; AT4-US 2; M-16 216; M240-MG 1; PRINTED BY: mds007

;VISUAL DETECT CHANGE;MED2;32SPF732833;060828ZJAN99;MANCON_3;DETECTION AT 32SPF732833 IS A SQUADRON SIZED AIR_SQUADRON UNIT, TRACK 2

, ID=AGAIR TROOPS 223; M-16 218; PRINTED BY: mds007

;VISUAL DETECT STATUS;AGSUP;32SPF728829;060828ZJAN99;AGCON_1;DETECTION AT 32SPG713005 HAS BEEN LOST, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; X-TANK 4; HMMWV 9; SEE 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;AGAIR;32SPF729830;060828ZJAN99;AGCON_1;DETECTION AT 32SPG713006 HAS BEEN LOST, TRACK 2

, ID=ENG 5.0-TRUCK 3; MCLIC 7; X-TANK 4; HMMWV 9; SEE 2; PRINTED BY: mds007

;VISUAL DETECT STATUS;ENG;32SPF740993;060828ZJAN99;MANCON_6;DETECTION AT 32SPF756816 HAS BEEN LOST, TRACK 5

, ID=AGAIR

PRINTED BY: mds007

;VISUAL DETECT STATUS;ENG;32SPF740993;060828ZJAN99;MANCON_6;DETECTION AT 32SPF756816 HAS BEEN LOST, TRACK 6

, ID=AGSUP

PRINTED BY: mds007

;UNIT MOVE ;INF_H/P;32SPG805045;060828ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060828ZJAN99

PRINTED BY: mds007

;UNIT DESTINATION; INF_H/P; 32SPG818050; 060828ZJAN99; MANCON_4; HAVE REACHED ASSIGNED DESTINATION
PRINTED BY: mds007

; UNIT MOVE ; INF_A1/P; 32SPG806045; 060828ZJAN99; MANCON_4; COMMENCING MOVEMENT at 060828ZJAN99

PRINTED BY: mds007

;UNIT DESTINATION ;INF_A1/P;32SPG818050;060828ZJAN99;MANCON_4;HAVE REACHED ASSIGNED DESTINATION PRINTED BY: mds007

; REPORT; GROUND_ENGAGEMENT 1;32SPF841931;060829ZJAN99; MANCON_3, AGCON 1;

Initial engagement times:

INF H/B; 060803ZJAN99

HILLIFY; 060803ZJAN99

Cumulative losses:

UNIT INF_H/B; TROOPS 25 WIA, UNIT AGSUP; No damage assessed. UNIT AGSUP; No damage assessed.

UNIT HILLIFY; TROOPS 1 WIA,

Incremental losses (increases since the last report)

UNIT INF H/B; TROOPS 12 WIA,

PRINTED BY: mds007

; ENGAGEMENT STATUS CHANGE; AGSUP; 32SPF728829; 060829ZJAN99; AGCON_1; IS ENGAGED BY MED2

PRINTED BY: mds007

;UNIT DESTRUCTION;AGSUP;32SPF728829;060829ZJAN99;AGCON_1;UNIT IS NO LONGER COMBAT EFFECTIVE PRINTED BY: mds007

;ENGAGEMENT STATUS CHANGE ;AGSUP;32SPF728829;060829ZJAN99;AGCON_1;IS DESTROYED, TERMINATING ENGAGEMENT WITH INF_A2/P PRINTED BY: mds007

- ;ENGAGEMENT STATUS CHANGE ;INF A2/P;32SPF727829;060829ZJAN99;MANCON_4;HAS TERMINATED ENGAGEMENT WITH AGSUP, UNIT DESTROYED. PRINTED BY: mds007
- ;ENGAGEMENT STATUS CHANGE ;AGSUP;32SPF728829;060829ZJAN99;AGCON_1;IS DESTROYED, TERMINATING ENGAGEMENT WITH MED2 PRINTED BY: mds007
- ; ENGAGEMENT STATUS CHANGE ; MED2; 32SPF732833; 060829ZJAN99; MANCON_3; HAS TERMINATED ENGAGEMENT WITH AGSUP, UNIT DESTROYED. PRINTED BY: mds007
- ;AIR RTE POINT;GCAS7;32SPG909003;060829ZJAN99;MANCON_2;AIR MISSION HAS REACHED FINAL LAND POINT PRINTED BY: mds007
- ;AIRCRAFT STAT;GCAS7;32SPG909003;060829ZJAN99;MANCON_2;AIR MISSION HAS FOL AIRCRAFT STATUS UNDAMAGED: 1; NON MISSION CAPABLE: 0; DESTROYED: 0 PRINTED BY: mds007
- ;UNIT MOVE ;INF_A1/P;32SPG818050;060830ZJAN99;MANCON_4;COMMENCING MOVEMENT at 060830ZJAN99
 PRINTED BY: mds007
- ;UNIT DESTINATION; INF_A1/P; 32SPG819051; 060830ZJAN99; MANCON_4; HAVE REACHED ASSIGNED DESTINATION PRINTED BY: mds007
- ;VISUAL DETECT STATUS;AGAIR;32SPF729830;060830ZJAN99;AGCON_1;DETECTION AT 32SPG955056 HAS BEEN TEMPORARILY LOST, TRACK 5
- , ID=MED2 TRAILER-WATER-300G 3; 5.0-TRUCK 3; HMMWV-AMBUL 9; HMMWV 3; TROOPS 182; .50CAL-MG 1; SAW 2; AT4-US 2; M-16 216; M240-MG 1; PRINTED BY: mds007
- ;VISUAL DETECT STATUS;MED2;32SPG967042;060830ZJAN99;MANCON_3;DETECTION AT 32SPF742816 HAS BEEN TEMPORARILY LOST, TRACK 2
- , ID=AGAIR TROOPS 192; M-16 218; PRINTED BY: mds007

2. Command History file from 3-1-99_J61J62_V2

The following is an example of an Excel spreadsheet showing a six-node run Command History. The pages run in the over then down format, in other words the line 1 is shown in its entirety then it jumps down to the next section. All lines and columns are numbered and lettered on each page of the spreadsheet. The Command History contains all commands given from the beginning of the construction of the scenario and assets through to the end of the actual scenario.

			тел001	\$	32SPF788881	32SPF752989	32SPG735008	325PF / 31890	32SPF858912	32SPG743009	RIVER	RIVER		2	32SPG984018		•		, ,	(0432SPG931018	(0332SPF876997	(0432SPG855017	(0432SPG877057	(0332SPG998051	(0432SPF862933	(0432SPF875892	(0432SPF893851	(0432SPF774953	(0432SPG816049	(0432SPF796882	(0432SPF795881	(0432SPF734861	NONE	NONE	Z NONE	NONE	MONE	2 NONE		NONE	SIMULATED	SIMULATED	2	SIMULATED	SIMULATED		4			SIMULATED	SIMULATED		2 OPERATIONAL			2244	SIMULATED	COCCOATIONAL				SIMULATED		OPERATIONAL				SIMULATED		2 OPERATIONAL			
×			F8	042305565003	0432SPF858907	0232SPG785000	0432SPG730017	04323FF120970	0232SPF884893	32SPG74501B	32SPG741005	32SPF739992	3	32SPF850927	32SPG938033				2	M-FLD-AS-LOW	M-FLD-AS-LOW	M-FLD-AS-LOW	M-FLD-AS-LOW	M-FLD-AS-LOW	M-FLD-AS-LOW	M-FLD-AS-LOW	M-FLD-AS-LOW	M-FLD-AP-LOW	M-FLD-AP-LOW	M-FLD-AP-LOW	M-FLD-AT-LOW	M-FLD-AP-LOW											X00				1000	200																									
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3. Parsed Data File 1 from 3-1-99_J61J62_V2

The following is the first of the parsed data files produced from an example six-node run.

This parsed data file includes only data from the beginning of the run sequence of the scenario.

The data was always parsed twice to ensure that no data was lost or left out.

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TROOPS			-							30825ZJAN99
TROOPS			_						0	30825Z.JAN99
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TROOPS 162		TROOPS		-						
AT4-US 60MM-WTR 60MM-WTR 70MM-WTR 70MM-MTR 70MM-	PF728829	TROOPS	182	1						
00MM-MTR M-16 M-16 M-16 M-16 M-16 M-16 M-203	PF728829	ATTIS	2 0				•			
M.16 SAW SAW M.203 M.203 M.2040-MG SMANW TROOPS AT4-US	PF728829	SOME LATE	•							
SAW1 SAW1 M-203 M-204MG MA240-MG SMAW TROOPS AT4-US	DE728820	NA 40	2 6							
M-203 M-203 M240-MQ SMAW TROOPS AT4-US	Cash	DI-WI-	751							
M-203 M240-MQ SMAW TROOPS AT4-US	C100011	SAW	27							
M240-MG SMAW TROOPS AT4-US	L/2007	M-203	27							
TROOPS AT+US	F728829	M240-MG	9							
TROOPS AT4-US	PF728829	SMAW	80							
AT4-US	P728830	TROOPS	182							
	PF728630	AT4.11S	0							
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622 32SPF728630		M-16	132					,		
623 32SPF728630		SAW	27							
624 32SPF726830		M-203	27							
625 32SPF728630		M240-MG	٩		1					
826 32SPF728830		SMAN	•							
627 32SPF727830		100000	9							
A28 225DE727820		INCOPE	244							
A20 225DEA20E4E		M-10	218			-				
420 2201 102013		IROOPS	182							
000 000 000 000		HMMWV-TOW	8							
031 3234 G000293		M1A1	13							
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848	No damage assessed.	CF PRODUCT		1						
679		TBOODS		> 0		5				
920	No demand accepted	OF PROPIOT		0	0	0				
851		CE PRODUCI		0		0				
852 22CDER2200		IROOPS		0		0				
852 225FF 053020		BOEING-747	84							
864 2100E77070E		IROOPS	142							
AKK 1200 CARENTE		IROOPS	182							
858 32CDE888977		ROOPS	7							
657		SOCK S	-							
REA	6 Description description in contract to the contract of									
659	F Product demans level increased 60 percent	מייסטטיין		0	0	0				
099	The second secon	CE LUCIONOI		0		0				
199			1							
862						-				
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88							1	0	0	
	NO ASSESSMENT									
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170										DRORPRZ IANGO
2/9										
673 32SPF 736747		LAV-LOG	3							
6/4 32SPF 736/47		LAV-COMMAND	1							
675 32SPF736747		LAV-AT	7							
676 32SPF736747		LAV-25	13							
677 32SPF736747		TROOPS	67							
878 32SPF804528		S.P.TRUCK	6							
679 32SPF804528		Metro	1							
680 32SPF804526		ACE				1				
681 32SPFR04528		TOWN	•							
682 32SPF804526		AAMMAA	3							
ART 325DEALASTA		סבב	2							
RR4 325DERROOPE		ROOFS	92							
885 325DE880076		5.0-TRUCK	3							
ASE DICEEGOODE		MCLIC	-							
ABY 32CDEBROOM		ACE	7							
899 225 5000 823		HMMWV	8							
900 3237 7008823		SEE	2							
2009 323PF 009823		TROOPS	82							
390 325PG772230		LAV-MTR	2							

ı				
32SPF725991 MAN	MANCON 6		DETECTION HAS BEEN TEMPORARILY LOST	3 LDVEH2
- 1	CON 6		DETECTION HAS BEEN TEMPORARILY LOST	3 LDVEH2
- 1	a NOO		DETECTION HAS BEEN TEMPORARILY LOST	3 LDVEH2
_1.	e con e		DETECTION HAS BEEN TEMPORARILY LOST	3 LDVEH2
NAM LEGENTATIONS	9 000	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	3 LDVEH2
Л.	9 100		DELECTION HAS BEEN LEMPORARILY LOSI	CDVEH3
1.	9 100		DETECTION HAS BEEN TEMPORARILY LOST	LDVEH3
. 1	9 100	VISUAL DETECT STATUS	DESCRION HAS BEEN LEMPOKAKILY LOSI	LOVEH3
.	9 100		DETECTION TAS BEEN TEMPORARILY LOST	LDVEH3
.1.	9 100		DESCRION HAS BEEN LEMPORARILY LOSI	LDVEH3
1	NO.		DETECTION TAS BEEN TEMPORABILY LOST	LDVEHZ
M	NOON A		DETECTION TAS BEEN TEMPORABLY LOST	LOVERZ
¥	e NO	Ī	DETECTION WAS BEEN TEMPODADILY LOST	Ī
ž	NCON 6		DETECTION HAS BEEN TEMPORARII VIOST	LOVENS
Ā	CON 8	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	LDVEH2
MA	ACON_S,MANCON_6		AIR MISSION HAS REACHED FINAL LAND POINT	
¥	CON_S,MANCON_6			
32SPF728830 MAN	CON 4	UNIT CASUALTY LIMIT	HAS REACHED EFFECTIVE CASUALTY LIMIT	
ğ	ON 1	NOIS	HAS ASSUMED WITHDRAW MISSION DUE TO CPR (0.00000<=0.17000)	
- 1	ON 1		HAS TERMINATED ENGAGEMENT, NO LOS	ENG
- 1	con e		HAS TERMINATED ENGAGEMENT, NO LOS	LDVEH2
!	ON 1		HAS TERMINATED ENGAGEMENT, NO LOS	ENG
	CON		HAS TERMINATED ENGAGEMENT, NO LOS	LDVEH3
١	9 NOO	ENGAGEMENT STATUS CHANGE	HAS TERMINATED ENGAGEMENT, NO LOS	LDVEH3
	ON_1	ENGAGEMENT STATUS CHANGE	HAS TERMINATED ENGAGEMENT, NO LOS	ENC
	ON_1	VISUAL DETECT	HAVE DETECTED COMPANY SIZED MEDICAL UNIT	5 MED2
	ON 1		HAVE DETECTED COMPANY SIZED MEDICAL UNIT	MED2
32SPF728829 AGC	ON 1		HAVE DETECTED COMPANY SIZED MEDICAL UNIT	S WED2
1	ON_1		HAVE DETECTED COMPANY SIZED MEDICAL UNIT	5 MED2
	ON_1		HAVE DETECTED COMPANY SIZED MEDICAL UNIT	5 MED2
32SPF728829 AGC	ON_1		HAVE DETECTED COMPANY SIZED MEDICAL UNIT	5 MED2
	ON 1		HAVE DETECTED COMPANY SIZED MEDICAL UNIT	5 MED2
	ON 1	VISUAL DETECT	HAVE DETECTED COMPANY SIZED MEDICAL UNIT	
	L NO		HAVE DETECTED COMPANY SIZED MEDICAL UNIT	
1	- NO		HAVE DETECTED COMPANY SIZED MEDICAL UNIT	5 MED2
320FF (20030 AG)	- NO	VISUAL DETECT	HAVE DETECTED COMPANY SIZED MEDICAL UNIT	MEDZ
	NO.		DAVE DETECTED COMPANT SIZED MEDICAL UNIT	S MED2
	NO.		TAVE DETECTED SOLINDBOAL SIZES ANATION INIT	
32SPF732633 MAN	S NO	VISUAL DETECT	HAVE DETECTED COMPANY SIZED SUBDIVINITY	A AGENTA
	ON 1	l	DETECTION HAS BEEN LOST	AAAV1
	ON 1		DETECTION HAS BEEN TEMPORARILY LOST	3 INF HIP
	ON_1		DETECTION HAS BEEN TEMPORARILY LOST	3 INF H/P
32SPF728830 AGC	ON 1		DETECTION HAS BEEN TEMPORARILY LOST	3 INF HVP
	ON_1	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	3 INF H/P
32SPF728830 AGC	ON_1		DETECTION HAS BEEN TEMPORARILY LOST	3 INF HP
32SPF728830 AGC	ON_1		DETECTION HAS BEEN TEMPORARILY LOST	
32SPF728830 AGC	ON_1	VISUAL DETECT STATUS.	DETECTION HAS BEEN TEMPORARILY LOST	3 INF HVP
	ON 1		DETECTION HAS BEEN TEMPORARILY LOST	3 INF HVP
	ON_1		DETECTION HAS BEEN TEMPORARILY LOST	3 INF_HP
32SPF728830 AGC	on 1	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	3 INF HVP
	CON		DETECTION HAS BEEN TEMPORARILY LOST	3 AGAIR
	CON 4		DETECTION HAS BEEN TEMPORARILY LOST	3 AGAIR
	CON 4		DETECTION HAS BEEN TEMPORARILY LOST	4 AGSUP
	- NO	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	INF A1/P
SECTION OF THE PARK	* NOO	AID DEFECT STATUS	DEJECTION HAS BEEN JEMPORARILY LOST	SILKA
	S NOO	AIRCRAFT STAT	AND MISSION THAN REACHED THAN LAND FOIR	
	CON 2		AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT	
	CON_2	_	AIR_TO_SURFACE Msn# GCAS7	
32SPF730885 MAN	CON_2		AIR_TO_SURFACE Man# GCAS7	
- 1	ON 1	- 1	HAS TERMINATED ENGAGEMENT, NO LOS	NF HV
	CON 4	ENGAGEMENT STATUS CHANGE	HAS TERMINATED ENGAGEMENT, NO LOS	AGSUP
	- NO	- Î	HAS ASSUMED WITHDRAW MISSION DUE TO CPR (0.15878<=0.17000)	
325PG805045 MAN	A NOO	ENCAGEMENT STATIS CHANGE	HAS LERMINATED ENGAGEMENT NO LOS	NI C
	+ 500	ENGAGEMENT STATUS CHANGE	HAS IERMINATED ENGAGEMENT, NO LOS	AGAIR
	-		CAS INITIATED END A DESCRIPT	1000

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	AV-10G	LAV-COMMAND	LAV.AT	LAV-25	TROOPS	LAV-LOG	LAV-COMMAND	LAV-25	TROOPS	LAV-MTR	LAV-LOG	LAV-COMMAND	AV.26	TROOPS									TRAILER-WATER-300G	5.0-IRUCK	HMMMVV-AMBUL	TROOPS	SOCAL-MG	TRAILER-WATER-300G	D.G-: RUCK	HMMMV	TROOPS	SOCAL-IMG	adocar.	TROOPS	AAAV	ROOPS	SMAW	VI4-US	SOMM-MTR	J-18	SAW	M-203	SMAW	Roops	A-16	TROOPS	ROOPS	KOOPS										,
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	72230	72230	772230	72230	04840	84816	64816	64816	64816	129215	28215	20245	29215	29215									30830	10830	10830	30830	30830	0.000	9830	9830	9830	9830	1832	10831	17951	8028	4059	4059	34059	24059	4059	4059	4059	1275	1275	6615	2020	2700			NO ASSESSMENT	NO ASS					 -	
	11 32SPG7	2 32SPG7	332SPG1	32SPG	323PG	97 32SPF5	32SPF5	39 32SPF5	32SPF5	701 32SPG829215	22 325 P.G.	12 32 P GC	5 32SPG8	6 32SPG6	2	9010	P C	51+	 100	4	9	60	132SPF7	32SPF73	32SPF73	32SPF7:	32SPF7:	714876	32SPF72	32SPF72	32SPF72	32SPF 72	32SPF73	32SPF73	32SPF84	32SPG7.	32SPG72	32SPG72	32SPG72	738 32SPG724059	325PG72	32SPG72	32SPG72	32SPG80	32SPG80	32SPF80	3250E08						754					

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	SILK4	32SPF784745	AGCON 1		UNIT DEFENSIVE MISSION	HAS ASSUMED DEFENSIVE MISSION	L	
060828ZJAN99	GROUND_ENGAGEMENT 5	32SPG806045	AGCON 1, MANCON	•	REPORT	Initial engagement:		SILK4
080828ZJAN99	GROUND_ENGAGEMENT \$	32SPG806045	AGCON 1, MANCON 4		REPORT	Inklal engagement:	L	INF A1/P
Г	GROUND ENGAGEMENT 5	32SPG806045	AGCON 1, MANCON 4		REPORT	Cumulative losses:		SILKA
Т	GROUND FNGAGEMENT S	32SPG808045	AGCON 1 MA		PEDOPT	Investmental becase		OILNA OILNA
Т	SII K4	12SDE784745	ACCON 1		EMENT STATIS CHANGE	LAS TECHNINATED CADACEMENT ACTION		SILK4
ORDADAZ IANGO	INE A1/D	125DCR08045	NO CONTRACTOR A		1	LAS TERMINATED CNOADEMENT, NO LOS		INT ATIV
OGUSTA IANGO	MEDS	1250F712811	MANCON		ENGAGEMENT STATIS CHANCE	TAS IERMINATED ENGAGEMENT, NO LOS	1	SILK
ORORZAZ IANGO	MED2	12SPF732833	MANCON		Т	LAS INTIATED CLOSOCHER		AGAIR
T	AGAIR	32SPF729830	AGCON 1		T	DETECTION IS A COMPANY SIZED MEDICAL LINIT		AGSOF
Т	AGAIR	32SPF729830	AGCON 1		VISITAL DETECT CHANGE	DETECTION IS A COMPANY SIZED MEDICAL UNIT	0	MEDZ
1	AGAIR	32SPF729830	ACCON 1			DETECTION IS A COMPANY SIZED MEDICAL UNIT	0	MEDZ
0608287.1AN99	AGAIR	32SPF729830	AGCON 1			DETECTION IS A COMPANY SIZED MEDICAL UNIT		MEDZ
OBORDAZ IANGO	ACAID	32SPF729830	A NOON 4			DETECTION IS A COMPANY SIZED MEDICAL UNIT	0	MEDZ
OGURZAZIANGO	AGAIR	32SPF729830	AGCON 1			DETECTION IS A COMPANY SIZED MEDICAL UNIT		MEDZ
OGOSCOLOS INTO	ACAID	32CDE720830	NO SON		WELLE DETECT CHANGE	DETECTION IS A COMPANY SIZED MEDICAL UNIT	0	MEDZ
CONSCIENT AND	NICON CONTRACT	20000110000	10004			DEJECTION IS A COMPANY SIZED MEDICAL UNIT	2	MED2
OCUAINBE	AGAIR	32377729930	AGCON .			DETECTION IS A COMPANY SIZED MEDICAL UNIT	S.	MED2
COURT IN THE	AGAIR	32577729630	AGCON.		VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED MEDICAL UNIT	2	MED2
0000262JAN99	AGAIR	32577129530	AGCON .			DETECTION IS A COMPANY SIZED MEDICAL UNIT	2	MED2
080828ZJAN89	MEDZ	32SPF732833	MANCON			DETECTION IS A SQUADRON SIZED AIR SQUADRON UNIT	2	AGAIR
080828ZJAN99	MED2	32SPF732833	MANCON 3			DETECTION IS A SQUADRON SIZED AIR SQUADRON UNIT	2	AGAIR
060828ZJAN99	AGSUP	32SPF728829	AGCON_1		VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	2	ENG
060828ZJAN99	AGSUP	32SPF728829	AGCON 1		VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	2	ENG
060828ZJAN99	AGSUP	32SPF726629	AGCON 1			DETECTION HAS BEEN LOST	~	ENG
060828ZJAN99	AGSUP	32SPF728829	AGCON 4		VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	2	ENG
080828ZJAN99	AGSUP	32SPF728629	AGCON 1		VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	~	ENG
060828ZJAN99	AGAIR	32SPF729830	AGCON_1		VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	~	ENG
060828ZJAN99	AGAIR	32SPF729830	AGCON_1		VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	2	ENG
060828ZJAN99	AGAIR	32SPF729830	AGCON, 1		VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	2	ENG
080828ZJAN99	AGAIR	32SPF729830	AGCON_1		VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	2	ENG
060828ZJAN99	AGAIR	32SPF728830	AGCON_1		VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	2	ENG
060828ZJAN99	ENG	32SPF740993	MANCON_6		VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	5	AGAIR
060828ZJAN99	ENG	32SPF740993	MANCON 6		VISUAL DETECT STATUS	DETECTION HAS BEEN LOST		AGSUP
060828ZJAN99	INF_HVP	32SPG805045	MANCON_4		UNIT MOVE	COMMENCING MOVEMENT		
82JAN99	INF_H/P	32SPG818050	MANCON_4		UNIT DESTINATION	HAVE REACHED ASSIGNED DESTINATION		
060828ZJAN99	INF_A1/P	32SPG808045	MANCON 4		UNIT MOVE	COMMENCING MOVEMENT	L	
66NY/7828090	INF_A1/P	32SPG818050	MANCON_4		UNIT DESTINATION	HAVE REACHED ASSIGNED DESTINATION		
1	GROUND ENGAGEMENT 1	32SPF641931	MANCON 3,A	AGCON 1	REPORT	Inklal engagement:		INF_H/B
	GROUND_ENGAGEMENT 1	32SPF641931	MANCON 3,A	GCON_1	REPORT	Initial engagement:		HILLIFY
1 1	GROUND ENGAGEMENT 1	32SPF641931	MANCON 3, AGCON 1	(GCON_1	REPORT	Cumulative losses:		INF H/B
_ !	GROUND_ENGAGEMENT 1	32SPF641931	MANCON 3, AGCON 1	GCON_1	REPORT	Cumulative losses:		HILLIFY
080829ZJAN99	GROUND_ENGAGEMENT 1	32SPF841931	MANCON 3,A	AGCON 1	REPORT	Incremental losses:		NF H/B
080829ZJAN99	AGSUP	32SPF728829	AGCON 1		ENGAGEMENT STATUS CHANGE	IS ENGAGED		MED2
080829ZJAN99	AGSUP	32SPF726829	AGCON_1		UNIT DESTRUCTION	UNIT IS NO LONGER COMBAT EFFECTIVE		
060829ZJAN99	AGSUP	32SPF728829	AGCON 1		ENGAGEMENT STATUS CHANGE	IS DESTROYED, TERMINATING ENGAGEMENT		INF_A2/P
0606292JAN99	INF_A2P	32SPF727829	MANCON 4		ENGAGEMENT STATUS CHANGE	HAS TERMINATED ENGAGEMENT		AGSUP
060629ZJAN99	AGSUP	32SPF725829	AGCON 1		ENGAGEMENT STATUS CHANGE	IS DESTROYED, TERMINATING ENGAGEMENT		MED2
060829ZJAN99	MEDZ	32SPF732833	MANCON 3		ENGAGEMENT STATUS CHANGE	HAS TERMINATED ENGAGEMENT		AGSUP
OGOSZSZJANSS	GCAS/	32SPG909003	MANCON 2		AIR RIE POINT	AIR MISSION HAS REACHED FINAL LAND POINT		
DEDESTRANS	GCAS/	32SFGW9003	MANCON		AIRCRAFT STAT			
060830ZJAN99	INF_A1/P	32SPG818050	MANCON 4		UNIT MOVE	COMMENCING MOVEMENT		
000030ZJAN99	INF ANY	3237 5019031	MANCON		UNIT DESTINATION	MAVE REACHED ASSIGNED DESTINATION		
OCCOSOSSIVANOS	DIVOV	32357726830	A SCOOL		VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	۰	MED2
COCCUPACION OF TAXABLE	O VOV	32377 / 28030	10000		VISUAL DETECT STATUS	DEFECTION HAS BEEN TEMPORARILY LOSI	٠,	MEDZ
0808307.JAN99	AGAIR	32SPF729830	AGCON 1		VISIAL DETECT STATUS	DETECTION HAS BEEN TEMPORABLE VIOLET	0 4	MEDZ
080830Z.JAN99	AGAIR	32SPF729830	AGCON 1		VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORABLY LOST	2	MEDZ
060830ZJAN99	AGAIR	32SPF729830	AGCON 1		VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARII Y LOST	, ,	MED
060830ZJAN99	AGAIR	32SPF729830	AGCON 1		VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST		MED2
060830ZJAN99	AGAIR	32SPF729830	AGCON_1	-	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	, w	MED2
060830ZJAN99	AGAIR	32SPF729830	AGCON_1		VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	LO.	MED2
080830ZJAN99	AGAIR	32SPF729830	AGCON 1		VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	2	MED2
060830ZJAN99	MED2	32SPG967042	MANCON 3		VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	2	AGAIR
0ZJAN99	MED2	32SPG967042	MANCON 3		VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	2	AGAIR

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762				, c		2	9				060824ZJAN99
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785		S LOON	1	-	İ		Б				
788				+		1					
787				+							
788			1	+							
769 32SPF 7298	0	TRAILED WATER 3000	•	+							
770 32SPF7298		E O TOLICK	2	+							
771 32SPF729830		S.P.IROCK	P	+							
772 32SPF72983		TOGWY-YWDOL	200	+							
773 32SPF72983		VAVMMA	9	+							
774 32SPF729830		FOOT NO	201	+							
77K 12SDE 720R1		SUCAL-MG	-	+							
778 3250572083		SAW	2	4							
777 33CDE72083		AT4-US	2	+							
776 326567000		M-16	216	-							
770 325FF / 280.		M240-MG	-	-							
780 325PF /326.		TROOPS	223				-				
700 325FF 7328.		M-16	218								
787 375007430		5.0-TRUCK	9								
702 3257 67 130		MCLIC	^	_							
784 32000 743005		X-TANK	*	_							
786 3250 07 130		HMMVVV	8	-							
788 325PG/13005		SEE	2								
700 323PG/130R		5.0-TRUCK	3			-					
707 32SPG/1300		MCLIC	7								
768 32SPG/13006		X-TANK	4								
700 325PG/1300		HMMWV	6								
704 220PG 130K		SEE	2	-							
91 323FF / 3061											
182 323PT /3081											
2 3						-					060828Z.JAN99
				-						-	
2 8				-							060828ZJAN99
10				- 1							
86						0	0				060803ZJAN99
66		TROOPS	1			0	0				060803ZJAN99
8		TROOPS		1		0	٥				
20		TROOPS		- 6	3	9	5				
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805	UNIT DESTROYED			L							
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3 8	UNII DESIROTED										
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1=				1							060830ZJAN99
12 32SPG95505		COAN ED MATER 2000	1	1							
13 32SPG855054		DATE OF THE PART O	2	1							
14 32SPG955054		THE PARTY AND THE	5	1							
15 32SPG955054		HAMANA	20 0	1							
16 32SPG955054		Sacora	2 6	Ţ							
117 32SPG955056		SOCAL MG	707	Ţ							
18 32SPG955054		SAW	- 6	I							
19 32SPG955056		AT4-US	7	L					-		
20 32SPG855056		A-16	216				-				
21 32SPG95505t		4240-MG	-								
822 32SPF742818		TROOPS	192								
23 325FF /42010		4-18	218								

4. Parsed Data File 2 from 3-1-99_J61J62_V2

The following is the second of the parsed data files produced from an example six-node run. This parsed data file includes only data from the beginning of the run sequence of the scenario. The data was always parsed twice to ensure that no data was lost or left out.

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O.C.	Parsed Data (2)	1	1-99_J61J62_V2			0
OROR257 JANOS	OD O	UTM	의	REPORT	MESSAGE	TRACK UID2
080825Z.IAN99	AAAB	32SPF625617	Т	AIR RTE POINT	AIR MISSION HAS REACHED FINAL LAND POINT	_
0808187.1ANGG	AGAID	323FF62361/	T	AIRCRAFT STAT		
A DROBERZ IANGO	AGAIR	32SPF 728830	\neg		HAVE DETECTED COMPANY SIZED ENGINEER UNIT	2 ENG
	CANA	32SFF / 28630	Т		HAVE DETECTED COMPANY SIZED ENGINEER UNIT	2 ENG
	AGAIR	325FF126630	7		HAVE DETECTED COMPANY SIZED ENGINEER UNIT	2 ENG
	AGAIR	325FF126630	т		HAVE DETECTED COMPANY SIZED ENGINEER UNIT	2 ENG
	AGAIR	32SPF 728830	Т		HAVE DETECTED COMPANY SIZED ENGINEER UNIT	2 ENG
060818ZJAN99	AGAIR	32SPF728830	$\overline{}$	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	2 ENG
2 060818ZJAN99	AGAIR	32SPF728830	Т		DETECTION HAS BEEN TEMPORARILY LOST	2 ENG
3 060818ZJAN99	AGAIR	32SPF728830	AGOON 1		DETECTION HAS BEEN TEMPORARILY LOST	2 ENG
080818ZJAN99	AGAIR	32SPF728830	AGCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	2 ENG
ı	AGAIR	32SPF728830	AGCON 1	SIAIUS	DE JECTION HAS BEEN TEMPORARILY LOST	2 ENG
080822ZJAN99	AGAIR	32SPF728830	AGCON 1		HAVE DETECTED COMPANY SIZED INFANTRY UNIT	3 INF_H/P
060823ZJAN99		32SPF728830	AGCON 1		HAVE DETECTED SECTION SIZED INFANTRY UNIT	4 INF_A2/P
060823ZJAN99		32SPF728830	AGCON 1		DETECTION IS A COMPANY SIZED INFANTRY UNIT	4 INF A2P
060823ZJAN99		32SPF728830	AGCON 1		DETECTION IS A COMPANY SIZED INFANTRY UNIT	3 INF HVP
		32SPF728830	AGCON 1	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	3 INF HP
060823ZJAN60		32SPF728830	AGCON 1		DETECTION IS A COMPANY SIZED INFANTRY UNIT	3 INF HP
060823ZJAN89		32SPF728830	AGCON_1	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	3 NF KP
060823ZJAN99		32SPF728830	AGCON_1	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	NF HP
060823ZJAN99		32SPF728830	AGCON_1		DETECTION IS A COMPANY SIZED INFANTRY UNIT	NI HAD
		32SPF728830	AGCON 1		DETECTION IS A COMPANY SIZED INFANTRY UNIT	N TAP
DOUGE A CLANING		32SPF728830	ŏli	П	HAS INITIATED ENGAGEMENT	NE HO
0808257.IAN99		325PF (28830	AGCON 1	HANGE	IS ENGAGED	INF AZIP
1		32SPF728830	ABCON 4		DETECTION IS A COMPANY SIZED INFANTRY UNIT	4 INF A2P
060825ZJAN99		32SPF728830	AGCON 1	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	4 INF_A2/P
080825ZJAN99		32SPF726830	AGCON 1		DETECTION IS A COMPANY SIZED INFANTRY UNIT	4 INF_A2P
32 060825ZJAN99		32SPF728830	AGCON_1		DETECTION IS A COMPANY SIZED INFANTRY UNIT	NF A2P
0606252JAN99	AGAIR	_ {	AGCON 1	VISUAL DETECT CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	A INF A2/D
060825ZJAN99	AGAIR	32SFF / 28830	AGCON 1		DETECTION IS A COMPANY SIZED INFANTRY UNIT	4 INF A2P
060827ZJAN99	AGAIR	. 1 .	AGCON 1	T CHANGE	DETECTION IS A COMPANY SIZED INFANTRY UNIT	4 INF A2P
060827ZJAN99	AGAIR	Ι.	AGCON 1		WAVE DETECTED COMPANY SIZED MEDICAL UNIT	S MED2
080827ZJAN99	AGAIR	I_ I	AGCON_1	VISUAL DETECT	HAVE DETECTED COMPANY SIZED MEDICAL UNIT	S MED2
060527ZJAN99			AGCON 1		AVE DETECTED COMPANY SIZED MEDICAL LINIT	S MEDS
		32SPF728830	AGCON 1		AVE DETECTED COMPANY SIZED MEDICAL UNIT	MED2
			AGCON 1		AVE DETECTED COMPANY SIZED MEDICAL UNIT	5 MED2
					DETECTION HAS BEEN TEMPORARILY LOST	3 INF HP
44 060827ZJAN99	AGAIR			VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	
080827ZJAN99	AGAIR	1			DETECTION HAS BEEN TEMPORARILY LOST	3 INF HP
- 1	AGAIR	اـا			DETECTION HAS BEEN TEMPORARII Y LOST	NE HAP
-1	AGAIR	_1.			DETECTION HAS BEEN TEMPORARILY LOST	NF HØ
0608277.IAN99					DETECTION HAS BEEN TEMPORARILY LOST	3 INF HAP
		32SPF728830	AGCON 1	VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	3 INF H/P
1 1			AGCON 1	Т	AS ASSUMED WITHDRAW MISSION DUE TO CPR (0.15878<=0.17000)	
- 6			AGCON_1	ENGAGEMENT STATUS CHANGE	HAS INITIATED ENGAGEMENT	NF HA
OGUSZAZJANOS	AGAIR	- 1	AGCON 1	П	COMMENCING MOVEMENT	WED2
1	AGAIR	32SPF /29830	AGCON 1	CHANGE	DETECTION IS A COMPANY SIZED MEDICAL UNIT	5 MED2
060828ZJAN99		- 1	AGCON			5 MED2
1		32SPF729830	AGCON 1	VISUAL DETECT CHANGE		5 MED2
: 1		1	AGCON_1			
- L	AGAIR	32SPF729830	AGCON_1		DETECTION IS A COMPANY SIZED MEDICAL UNIT	5 MEDZ
- 1		- 1	AGCON 1			
- [AGCON 1		ETECTION IS A COMPANY SIZED MEDICAL UNIT	5 MED2
1 -		1	AGON 1	VISUAL DETECT CHANGE		5 MED2
060828ZJAN99 /			AGCON_1		DETECTION IS A COMPANY SIZED MEDICAL UNIT	5 MED2
	AGAIR	- 1	AGCON 1		DETECTION HAS BEEN LOST	2 ENG
İ			AGCON 1		DETECTION HAS BEEN LOST	2 ENG
1				VISUAL DETECT STATUS D	DETECTION HAS BEEN LOST	2 ENG
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×	TYPE			5.0-TRUCK	MCLIC	HAMMAN	SEE	SOTRICK	Morio	X-TANK	A-1 AINA	MMMAN	SEE	TROOPS		TROOPS	TROOPS	AT4-US	60MM-MTR	M-16	SAW	M-203	M240-MG	SMAW		TROOPS	AT4-US	BOMM-MTR	M-16	SAW	M-203	M240-MG	SMAW	TRAILER-WATER-300G	5.0-TRUCK	HMMWV-AMBUL	HMMVV	ROOPS	TDOODE	AT4.18	BOMM-WTR	M-16	SAW	M-203	M240-MG	SMAW				TRAILER-WATER-300G	5.0-TRUCK	HMMWV-AMBUL	HMMM	TROOPS	SOCAL-MG	SAW	AT4-US	M-16	MZ40-MG	MCLIC	X-TANK	HMMMV	
7	STATUS)		•	,)							-							,			1	2												1					
_	STA			19881	28881	4881	16861	13008	13008	13008	3000	9000	3006	28841	25871	18841	28830	28630	26830	28830	28830	28830	28830	28830	-	28830	28830	28830	32SPF728830	28830	28830	28830	28830	29830	29830	28830	06897	28830	24050	24059	24059	32SPG724059	24059	24059	24059	24059				29830	29830	29830	29830	29830	32SPF729830	29830	32SPF729830	29830	28830	32SPG713008	13006	13006	-
	UTM2			32SPF72886	32SPF /28861	SOFF	SPET	2SPG7	COGSC!	20000	2000	20102	32576/13000	32SPF 728841	128PF7.	12SPF7.	2SPF7	32SPF728630	2SPF7	2SPF7	2SPF7	32SPF728830	2SPF7.	2SPF7.		32SPF728830	32SPF728830	2SPF7.	2SPF7.	2SPF7.	2SPF7.	2SPF7	32SPF728830	32SPF729830	32SPF729830	ZSPF	32SFF/29830	725	10000	2000	28PG7	2SPG7	2SPG7	2SPG7	2SPG7	2SPG7				32SPF729830	2SPF7	2SPF7	2SPF7.	2SPF7	2SPF7	2SPF7	2SPF7,	2SPF7.	32SPF729830	SPG7	28PG7	12SPG7	

	Ŧ	MED2	MED2	MED2	MED2	MED2	MED2	MED2	MED2	MED2	COMAIR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG Line	INF A2/P			INF_H/P	NF HP	NF H/P	AZ V		INF A2/P	INF_A2/P	INF A2/P	INF_A2P	NE AZP	INF A2/P	INF A2/P	MED2	MED2	MED2	MEDZ	MED2	INF HVP	INF_H/P	INF HVP	ENG.	ENG.	ENG	ENG	MED2		MED 2	SILKS	SILK4	SILK3	SILKS	NOKIH KD				HILLEY	HILFY	שוררוע
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	u_	의	DETECTION HAS BEEN TEMPORARILY LOST	DETECTION HAS BEEN TEMPORARILY LOST	DETECTION HAS BEEN TEMPORARILY LOST	DETECTION TAS BEEN TEMPORARILY LOS!	DETECTION TAS BEEN TEMPORARILY LOSS	DETECTION HAS BEEN TEMPORARILY LOST	DETECTION HAS BEEN TEMPORARILY LOST	DELECTION HAS BEEN TEMPORARILY LOST	DETECTION IS A SQUADRON SIZED AIR SQUADRON UNIT	HAVE DETECTED COMPANY SIZED ENGINEER UNIT	HAVE DETECTED COMPANY SIZED ENGINEER UNIT	HAVE DETECTED COMPANY SIZED ENGINEER UNIT	HAVE DETECTED COMPANY SIZED ENGINEER UNIT	HAVE DETECTED COMPANY SIZED ENGINEER UNIT	DETECTION HAS BEEN TEMPORARILY LOST	DETECTION HAS BEEN TEMPORARILY LOST	DETECTION HAS BEEN TEMPORARILY LOST	DETECTION HAS BEEN TEMPORARILY LOST	HAVE DETECTED COMPANY SIZED INFANTRY LINIT	HAVE DETECTED COMPANY SIZED INFANTRY UNIT	HAS ASSUMED WITHDRAW MISSION DUE TO CPR (0.00000<=0.17000)	COMMENCING MOVEMENT	DETECTION IS A COMPANY SIZED INFANTRY UNIT	DE ECCION IS A COMPANY SIZED INFANTRY UNIT	IS ENGAGED	HAS REACHED FEFECTIVE CASUALTY LIMIT	NOT ENOUGH TROOPS FOR MOVEMENT	DETECTION IS A COMPANY SIZED INFANTRY UNIT	DETECTION IS A COMPANY SIZED INFANTRY UNIT	DETECTION IS A COMPANY SIZED INFANTRY UNIT	DETECTION IS A COMPANY SIZED INFANTRY UNIT	DETECTION IS A COMPANY SIZED INFANTRY LINIT	DETECTION IS A COMPANY SIZED INFANTRY UNIT	DETECTION IS A COMPANY SIZED INFANTRY UNIT	HAVE DETECTED COMPANY SIZED MEDICAL UNIT	HAVE DETECTED COMPANY SIZED MEDICAL UNIT	RAVE DETECTED COMPANY SIZED MEDICAL UNIT	HAVE DETECTED COMPANY SIZED MEDICAL UNIT	HAVE DETECTED COMPANY SIZED MEDICAL UNIT	DETECTION HAS BEEN TEMPORARILY LOST	DETECTION HAS BEEN TEMPORARILY LOST	TAS JERMINA IEU ENGAGEMENI, NO LOS	DETECTION HAS BEEN LOST	DETECTION HAS BEEN LOST	DETECTION HAS BEEN LOST	DETECTION HAS BEEN LOST	IS ENGAGED	IS DESTROYED TEDRINATING ENCACEMENT	IS DESTROYED, TERMINATING ENGAGEMENT	AIR_TO_SURFACE GCAS2	AIR_TO_SURFACE GCAS3	AIR TO SURFACE GCAS4	AIR TO SUBFACE COASO	AIR TO SURFACE GCAS20	AIR_TO_SURFACE Msn# GCAS6	AIR_TO_SURFACE Msn# GCAS7	HAVE DETECTED ANTI TANK MINISPED			
	3	VISUAL DETECT STATUS	VISUAL DELECT STATUS	WISING DETECT STATES	VISUAL DETECT STATUS	Wells Defect etable	Weith Defect etable	WOUNT DETECT STATES	WEIN DETECT STATES		CHANGE				.		ľ	VISUAL DETECT STATUS	l	VISUAL DETECT STATUS	VISUAL DETECT	VISUAL DETECT	UNIT DEFENSIVE MISSION	UNIT MOVE	VISUAL DETECT CHANGE	FNGAGEMENT STATIS CHANGE	ENGAGEMENT STATUS CHANGE	UNIT CASUALTY LIMIT					VISUAL DETECT CHANGE		CHANGE	VISUAL DETECT CHANGE	VISUAL DETECT		VISUAL DETECT		VISUAL DETECT	VISUAL DETECT STATUS	VISUAL DETECT STATUS	VISUAL DETECT STATUS	VISUAL DETECT STATUS	VISUAL DETECT STATUS	VISUAL DETECT STATUS	_	ENGAGEMENT STATUS CHANGE	FNGAGEMENT STATUS CHANGE	ENGAGEMENT STATUS CHANGE	ASSESSMENT REPORT	ASSESSMENT REPORT	ASSESSMENT REPORT			ASSESSMENT REPORT				VISUAL DETECT STATUS	
	7 10000	A SOON A	AGCON 1	AGCON 1	AGCON 1	Į	AGCON 1	AGCON 1	AGCON 1	A000A	AGCON 1	ACCON 1	ACCON 1	AGCON 1	AGCON 1	NOON A	AGCON +	AGCON 4	AGCON 1	AGCON 1	AGCON_1	AGCON_1	AGCON 1	AGCON 1	AGCON 1	AGCON 1	AGCON 1	AGCON_1	AGCON_1	AGCON 1	AGCON 1	ACCON 1	AGCON 1	AGCON_1	AGCON_1	AGCON 1	AGCON 1	AGCON 1	AGCON 1	AGCON_1	AGCON 1	AGCON 1	AGCON 1	AGCON 1	AGCON 1	AGCON_1	AGCON 1	AGCON 1	AGCON 1	AGCON 1	AGCON 1	WANCON 2	WANCON 2	MANCON 2	WANCON 2	WANCON 2	MANCON 2	MANCON 2	MANCON 8	MANCON_8	ANCON 6	
	32000720000	32SPF729830	32SPF729830	32SPF729830	32SPF729630	32SPF729830					32SPF728830	1	- 1	ı		-	-	32SPF728830		32SPF728830							1	1	, ,	32SPF728829	- 1	- 1	•	1		- 1		32SPF728829		_ !	- 1					32SPF728829		32SPF /26629	- 1	1_	1 1	_ [.	1	32SPF714839	1	1 1	- 1	32SPF /30885		32SPF796885 N	ıı	ı
٥	١	AGAIR	AGAIR	AGAIR	AGAIR	AGAIR	AGAIR	AGAIR	AGAIR	AGAIR1	AGSUP	AGSUP	AGSUP	AGSLIP	AGSUP	AGSUD	AGSUP	AGSUP	AGSUP	AGSUP	AGSUP	AGSUP	AGSUP	AGGID	AGSUP	AGSUP	AGSUP	AGSUP	AGSUP	AGSUP	AGGIID	AGSUP	AGSUP	AGSUP	AGSUP	AGSUP	AGGID	AGSUP	AGSUP	AGSUP	AGSUP	AGSUP	AGSUP	AGSUP	AGSUP	AGSUP	AGSUP	AGSUP	AGSUP	AGSUP	AGSUP	88	3 8	38	90	90	8	No.	ENG	ENG	ENG	1::
4		-	080830ZJAN99	060830ZJAN99	1	060830ZJAN99	080830ZJAN99	080830ZJAN99	060830ZJAN99	060826ZJAN99		060818ZJAN99	0808187.IAN99	060818Z.IAN99	060818ZJAN99	060818ZJAN99	060818ZJAN99	87 080818ZJAN99	060818ZJAN99	060818ZJAN99	080822ZJAN99	060823ZJAN99	- 1	0606232JAN99	060823ZJAN99	060825ZJAN99	060825ZJAN99	080825ZJAN99	060825ZJAN99		0608257.14Noo	Т	060825ZJAN99	060825ZJAN99	080825ZJAN99	060825ZJAN99	ORORATZ IANGO	1	060827ZJAN99	1 1	113 060827ZJAN99	-		080828ZJAN99		060828ZJAN99	0606282JAN99	-1	060629ZJAN89	080829ZJAN99	060829ZJAN99	\neg	OBORONZIANOS	_	060825ZJAN99	060825ZJAN99	0606262JAN99	0608087.JAN99	T	060808ZJAN89	137 060808ZJAN99	200000000000000000000000000000000000000

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70 32SPG955056		0-TRUCK	, 6	+		1	,	4	°	,
71 32SPG955056		HMMWV-AMBUL	•	Н						
72 32SPG955056		IMMWV	6	4						
73 32SPG955056		Roops	182	+			1			
75 3257 6855050		SOCAL-MG	- 0	+			1			
78 32SPG855058		TALIS	7 6	+						
77 32SPG955056		W-18	218	-						
78 32SPG955058		A240-MG	-							
79 32SPF623620		30EING-747	48							
80 32SPF726862		.0-TRUCK	6	\dashv						
81 32SPF /26862		TANK	-	+						
82 325FF / 20002		ALANK.	•	1						
RA 32SPF728882		AAAWAAA	P (+						
85 32SPG713006		S.P.TRUCK	4 60	ļ						
86 32SPG713006		ACLIC		_						
		CTANK	4	-						
86 32SPG713006		4MMWV	00	_						
89 32SPG713006		XEE	2							
90 32SPF728841		ROOPS	182							
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101 32SPF728829		T4-US	•	-			,			
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103 32SPF728829		A-18	132	_						
104 32SPF728829		жw	27							
105 32SPF728829		A-203	27	_						
106 32SPF726829		A240-MG	8	-						
10/ 32SPF/28629		SMAW	80	+						
108 325PF / 30830		I KAILER-WATER-300G	6	+		1				
440 3250 7 30030		TOTAL STANDING	2 0	+		†				
110 32377 30630		TIMMAN V-AMBOL	2 0	1		1				
113 12505730830		AAAMMIL	2 5	+						
112 32517 130030		FOCAL MO	§ 7	+						
444 325DG720059		DOOR - WO	- 67	+		1	1			
416 2250 2720050		Month.	200	+						
80047/0Je76		IMANA	5	-		1				
110		10110	1	+						
11/ 325PG/13005		5.0-IRUCK	2	+						
110 32576713005		WCLIC	1	+						
420 12SPG713005		ALABANA)	•	+						
121 32SPG713005		, LEE	•					-		
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127		D-20			2	6	0			
128		5-20		Ĺ	1	0	-			
129		2.20		Ĺ	-	0	0			
130	No damage assessed.	CE_PRODUCT		0	0	0	0			
		ROOPS				0	0			
	NO ASSESSMENT					0	0			
	NO ASSESSMENT			0		•	•			
134 32SPF793883	% 0 DAMAGED			-					*******	
32SPF /94685		0111011011011	1	+						
130 325 - 1614840		TWIMWAY-40MM-MG	-	+						
13/ 3/2FF 014840		D-20	7 -	\downarrow						
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060609ZJAN99		F828928	MANCON		VISUAL DETECT	HAVE DETECTED SECTION SIZED ARTII I FRY LINIT	אוואל	
060810ZJAN99		١.١	MANCON_6		П	HAS INITIATED ENGAGEMENT	HILLIFY	>
141 060811ZJAN99	ENG	1	MANCON 8		MENT STATUS CHANGE	HAS TERMINATED ENGAGEMENT	HILLIFY	
060812ZJAN99	_		MANCON 6			DETECTION HAS BEEN TEMPORARILY LOST	2 HILLIFY	\ _
060812ZJAN99	_		MANCON			DETECTION HAS BEEN TEMPORARILY LOST	2 HILLIFY	
144 060812ZJAN99			MANCON 6			DETECTION HAS BEEN TEMPORARILY LOST	3 SILKS	
145 060812ZJAN99	_		MANCON			DETECTION HAS BEEN TEMPORARILY LOST	3 SILKS	
146 060813ZJAN99	\neg	-	MANCON 6			HAVE DETECTED COMPANY SIZED TANK UNIT	4 TANK1	L
0606132JAN99	\neg	ŀ	MANCON			HAVE DETECTED COMPANY SIZED TANK UNIT	4 TANKI	
0000132JAN99	ENG	32SPF792881	MANCON			HAVE DETECTED COMPANY SIZED TANK UNIT	4 TANK1	
0000132JAN99	Т	- 1	MANCON		VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	4 TANK1	
0000132JAN99	т	- 1	MANCON			DETECTION HAS BEEN TEMPORARILY LOST	4 TANK1	
0000 132JAN99	2000	-1-	MANCON				4 TANK1	
000010774N88	Т	١.	MANCON			IS ENGAGED	TANK	
0000 102JAN98	Т	- 1	MANCON				TANK	
DECEMBER 14100	ENG	.1	MANCON		OBJECT DETECT			
000001077	T	.1.	MANCON			HAVE DETECTED SQUADRON SIZED AVIATION UNIT	S AGAIR	
0000102JAND0	Τ.	- 1	MANCON			HAVE DETECTED COMPANY SIZED SUPPLY UNIT		0
158 OROR187 IANGO	Ţ	325PF / 02895	MANCON					
080821Z.JAN99	ENS	- 1	MANCON		VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST		
060821ZJAN99		-	MANCON			DETECTION HAS BEEN LOST	2 HILLIFY	ا ج
0608212JAN99	Г		MANCON 6			DETECTION HAS BEEN LOST	Z HILLIFY	
060821ZJAN99			MANCON 6			DETECTION HAS BEEN LOST	S SILKS	
060823ZJAN99	ENG		MANCON 6			HAVE DETECTED STRUCTURE		
060623ZJAN99	ENG	32SPG793041	MANCON 6			HAVE DETECTED STRUCTURE		
0000232JAN99	Ŧ		MANCON			HAVE DETECTED SECTION SIZED ARTILLERY UNIT	7 SILK4	
0608247 IANGO	Т		MANCON		OBJECT DETECT	HAVE DETECTED ANT! PERSONNEL Minefield		
060824ZJAN99	ENG	.	MANCON		-1	HAS INITIATED ENGAGEMENT	SILK	
060824ZJAN99	ENG	L	MANCON 8			MOK ONI	Ī	وا و
060824ZJAN99	ENG	750997	MANCON 6			HAVE DETECTED COMPANY SIZED LIGHT ARMOR LIMIT	LOVERS	2 2
080824ZJAN99	ENG	_	MANCON_6			HAVE DETECTED COMPANY SIZED LIGHT ARMOR LINIT	S LOVEHS	2 5
060824ZJAN99	7	- 1	MANCON 8		VISUAL DETECT	HAVE DETECTED COMPANY SIZED LIGHT_ARMOR UNIT	8 LDVEH3	2
0006242JAN99	Т		MANCON 8			HAVE DETECTED COMPANY SIZED LIGHT_ARMOR UNIT 8	8 LDVEH3	5
OGOGZ4ZJANBB	DNG GNG	- 1	MANCON			HAVE DETECTED COMPANY SIZED LIGHT_ARMOR UNIT 9	9 LDVEH2	
80824Z.JAN99	1	32SPF/5088/	MANCON		VISUAL DETECT	HAVE DETECTED COMPANY SIZED LIGHT ARMOR UNIT	9 CDVEH2	2
080824ZJAN99	ENG	1	MANCON 6			HAVE DETECTED COMPANY SIZED LIGHT ADMODITING	B COVERS	2 5
80824ZJAN99	Т	32SPF750997	MANCON 6			MAVE DETECTED COMPANY SIZED LIGHT ADMOR UNIT	LUVER	2
060824ZJAN99		1	MANCON_6			HAVE DETECTED COMPANY SIZED LIGHT ARMOR UNIT	DATE OF	والا
080824ZJAN99	ENG	LI	MANCON_6		VISUAL DETECT STATUS	DETECTION HAS BEEN LOGT		
060624ZJAN99	ENG	٠l.	MANCON 6		VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	4 TANK1	
0606242JAN99	т	- 1	WANCON 6		VISUAL DETECT STATUS	DETECTION HAS BEEN LOST	4 TANK1	
BURYEZ WANDO	Т	325PF (50997	MANCON 6		VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	7 SILK4	
0000252JAN99	ENG	- 1	MANCON		ENGAGEMENT STATUS CHANGE	HAS TERMINATED ENGAGEMENT, NO LOS	SILK4	
80825ZJAN99	Т	1_	MANCON		ENGAGEMENT STATUS CHANGE	HAS IERMINATED ENGAGEMENT, NO LOS	SILK	
080825ZJAN99	Т	1.	MANCON 6			SENGAGED	LOVEHZ	N
060826ZJAN99		1	MANCON 6		2	DETECTION HAS BEEN TEMPORARII Y LOST	LDVEH3	2 .
060826ZJAN99	ENG		MANCON 6			DETECTION HAS BEEN TEMPORARILY LOST		
060626ZJAN99	ENG		MANCON 6					
060826ZJAN99	ENG	- 1	MANCON 6		VISUAL DETECT STATUS			6
OGOSZGZJAN99	ENG	- 1	MANCON 6			DETECTION HAS BEEN TEMPORARILY LOST	8 LOVEH3	50
DEGRAPS IANGE	ENG	32SPF 740983	MANCON 8			DETECTION HAS BEEN TEMPORARILY LOST		2
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0608262JAN99	Т	1	MANCON					ای
060826ZJAN99	ENG		MANCON		VISUAL DETECT STATUS	DETECTION HAS BEEN TEMPORARILY LOST	LOVEH	ام
060626ZJAN99	ENG	ı	MANCON 8			DETECTION HAS BEEN TEMPORARILY LOST	Ī	,
060827ZJAN99	ENG		MANCON 6		ENGAGEMENT STATUS CHANGE		T	. ~
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UGUGZ/ZJANSB	CAU	32SPF /40893	MANCON 6		ENGAGEMENT STATUS CHANGE	HAS TERMINATED ENGAGEMENT, NO LOS	LDVEH3	
80828ZJAN99	\neg	- 1	MANCON		VISUAL DETECT STATUS			Ţ
80805ZJAN99	1		MANCON 2			AIR MISSION HAS REACHED OBBIT DOINT	AGSOP	
5 060805ZJAN99	GCAS12	32SPG698020	MANCON 2			AIR MISSION HAS REACHED ORBIT POINT		ſ
80806ZJAN99			MANCON 2			AIR MISSION HAS REACHED ORBIT POINT		
SAGAGT IANGO			MANCON 2		AIR RTE POINT	AID MISSION LAS DEACHED ODBIT COURT		ľ

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ACREACY IAAIOO	CCASS	32SPG681020	MANCON 2		AIR WPN LNCH	AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT	
BOSTOZNANSS	GCASS	32SPG974088	MANCON 2		AIR RTE POINT	AIR MISSION HAS REACHED FINAL LAND POINT	
BRINGS COOL	GCASZ	32SPG974088			AIRCRAFT STAT		
BRNACZCZOGO	GCASZO	32SPG817041	MANCON 2		AIR RTE POINT	AIR MISSION HAS REACHED ATTACK POINT	
50826ZJAN99	GCAS20	32SPG906036	MANCON_2			AIR MISSION HAS REACHED FINAL LAND POINT	
- 1	GCAS20	32SPG906036	MANCON_2		_		1
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060818ZJAN99	GCAS3	32SPG906038	MANCON 2			AIR MISSION TAS REACHED STAND-UFF WEAPON LAUNCH POINT	
Į	GCAS3	125DGa0a038	MANICON		\neg	AIR MISSION HAS REACHED FINAL LAND POINT	
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- 1	GCAS4	32SPG908038	MANCON 2		AIR RTE POINT	AIR MISSION HAS REACHED FINAL LAND DOINT	
060820ZJAN99	GCAS4	32SPG906038	MANCON_2		1		
	GCASS	32SPG697020	MANCON 2		7	AID MICEICAL LAS DE LA CALLE CALLES CONTROL CO	
	GCASS	22SDC000000	MANCON 2		TOWN NEW YORK	AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT	
	COVOC	250700000000000000000000000000000000000	MAINCON Z		AIR RTE POINT	AIR MISSION HAS REACHED FINAL LAND POINT	
ı	COVO	3231-6800030	MANCON Z		AIRCRAFT STAT		
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ĺ	GCAS6	32SPG906036	MANCON 2		AIR RTE POINT	AIR MISSION HAS REACHED FINAL LAND DOINT	
	GCAS6	32SPG906036	MANCON 2		AIRCRAFT STAT		
	GCAS7	32SPF730885	MANCON 2		AIR WON I NOH	Alb Meelon Use Description of the Commence of	
	GCAS7	32SPG909003	MANCON 2		AID DIE DOMY	AIR MISSION HAS REACHED STAND-OFF WEAPON LAUNCH POINT	
080829Z.JAN99	GCAS7	100000000000000000000000000000000000000	MANOON		ALL POINT	AIR MISSION HAS KEACHED FINAL LAND POINT	
	COOLIND CALCACEMENT 4	3237 3909003	MANCON Z		_		
COLUMNIA DE	GROUND ENGAGEMENT	325FF806834	MANCON 3,AGC	ON_1, MANCON_4, MANCON_6	$\overline{}$	Initial engagement:	INF H/B
DOUGH IZJANSS	GROUND ENGAGEMENT 1	32SPF806934	MANCON 3, AGC	ON 1,MANCON 4,MANCON 6	REPORT	Initial engagement:	H
0811ZJAN99	GROUND_ENGAGEMENT 4	32SPF806934	MANCON_3,AGC	ON_1,MANCON_4,MANCON_6	REPORT	Initial angagement	INIC CIV
0811ZJAN99	GROUND_ENGAGEMENT 1	32SPF808934	MANCON 3,AGC	ON 1, MANCON 4, MANCON 6	REPORT	Indial angement	LA LANGE
0811ZJAN99	GROUND_ENGAGEMENT 1	32SPF808934	MANCON 3.AGC	ON 1 MANCON 4 MANCON 6	REPORT	India processing	N- AZIP
	GROUND ENGAGEMENT 1	32SPF806934	MANCON 3 AGC	ON 1 MANCON 4 MANCON 8	DEDOOR	Intrinsi on payerinom.	INF_A1/P
060811ZJAN99	GROUND ENGAGEMENT 4	32SDER0403	MANICON 3 ACC	ON A MANOON A MANOON A	TOOUT OF THE PERSON AND THE PERSON A	innai engagement:	SILKS
DROR117 IANDO	+ FIGORGACIAL	STORE STORE	OCC STOCKE	CIN L'MAINCOIN & MAINCOIN D	אפרטאו	Initial engagement:	ENG
101121400	GROUND ENGAGEMENT	SESPERIORS	MANCON 3,AGC	ON 1, MANCON 4, MANCON 6	REPORT	Cumulative losses:	NORTH RD
00001120ANBB	GROUND ENGAGEMENT	32571-80693	MANCON 3,AGC	ON 1,MANCON 4,MANCON 6		Cumulative losses:	NOR BOH
BANACTIO	GROUND ENGAGEMENT 1	32SPF80693	MANCON 3,AGC	ON_1, MANCON_4, MANCON_6	REPORT	Cumulative losses:	
	GROUND_ENGAGEMENT 1	32SPF60693	MANCON_3,AGC	ON_1,MANCON 4,MANCON 6	REPORT	No change in CDA since last gange	
060817ZJAN99	GROUND ENGAGEMENT 1	32SPF84193	MANCON 3 AGC	- NO		trainings in the same leaf topolit.	
	GROUND ENGAGEMENT 4	32SPF84103	MANCON 3 ACC	- NO		muai engaçement:	INF H/B
	A THE CHOADENERS	000000000000000000000000000000000000000	DOU'S NOONE			Inklal engagement:	HILIFY
	GROOME ENGAGEMENT	323Fr04183	MANCON 3, AGC	1,10		Currulative losses:	EF HE
	GROUND ENGAGEMENT 1	32SPF84193	MANCON 3, AGC	ON 1		Cumulative losses:	731.117
	GROUND ENGAGEMENT 1	32SPF84193	MANCON 3, AGC	L NO		Incremental losses:	NE LO
	GROUND_ENGAGEMENT 1	32SPF84193	MANCON 3,AGC	₽ NO	REPORT	indial annament.	200
	GROUND_ENGAGEMENT 1	32SPF84193	MANCON 3 AGC	1 NC		ingle organization.	IN TO
060823ZJAN99	GROUND ENGAGEMENT 1	32SPF64193	MANCON 3 AGC	- NC		II was on beginning.	HILLIFY
	GROUND ENGAGEMENT 1	32SPF84103	MANCON 3 ACC	* AC		Cumulative tosses;	NF H/B
	GROUND ENGAGEMENT 4	12SPERATOR	MANCON	1	אברטאו	CUMURITY POSSES;	HILLIFY
	COOLING CALCACTURE	2237704183	MANCON SAGO	LNC		Incremental losses:	NF H/B
SACTANAS	GROUND_ENGAGEMENT 1	32SPF84193	MANCON 3, AGC	JN 1	REPORT	Initial engagement:	NF HA
29ZJAN99	GROUND ENGAGEMENT 1	32SPF84193	MANCON_3,AGCC	NC 1		Inklai engagement:	200
060829ZJAN99	GROUND_ENGAGEMENT 1	32SPF84193	MANCON_3,AGC	- NO		Curaulativa Incese:	יייייייייייייייייייייייייייייייייייייי
29ZJAN99	GROUND ENGAGEMENT 1	32SPF84193	MANCON 3 AGCC	NO.		Outsights lesses:	NI LOB
29ZJAN99	BROUND ENGAGEMENT 1	32SPF84193	MANCON 3 AGC	- N	100001	COLINGIAN DOSCOS.	HILLIFY
16Z.JAN99	SROUND FNGAGEMENT 2	175DE71778	ACCON 1 MANO	7 20	ייייייייייייייייייייייייייייייייייייייי	Incremental losses;	INF_H/B
0808187.JAN99	SPOUND ENGAGEMENT 2	07.11.11.00	TOTAL TOTAL	4 N	KELOKI		
257 JANOD	SPOTING ENDAORMENT	DODL' TORR	TOTAL MODEL	- N	KEPOKI		
200000000000000000000000000000000000000	SKOONO ENGAGEMENT &	150FF (2004)	AGCON 1, MANCC	* N	REPORT	Initial engagement:	AGAIR
ARNYCZOPON	GROUND ENGAGEMENT 4	32SPF / 2884	AGCON, 1,MANCO	A NO	REPORT	Initial engagement;	DE HAD
25ZJANB9	GROUND_ENGAGEMENT 4	12SPF72884	AGCON_1,MANCC	→ NC	REPORT	Inklist angerement	21.00
080825ZJAN99	3ROUND_ENGAGEMENT 4	12SPF72884	AGCON 1 MANCC	4 NG			Acsor
080825ZJAN99	SROUND ENGAGEMENT 4	12SPF72884	AGCON 1 MANCO	7 No.		แหลา ยามูลมูยเหอเห.	SILKS
	PROLING ENGAGEMENT	10CDE77084	COLUMN A MOOON			Initial engagement:	INF_A2/P
0000027144100	THE PROPERTY A	120FF 1 2004	JOSEPH MARKET	* Nr	REPORT	Cumulative losses:	AGAIR
	SHOOKE ENGAGEMENT 4	152FF / 2504	AGCON 1,MANCC	4 N	REPORT	Cumulative losses:	SILKS
- 1	SHOUND ENGAGEMENT 4	25PF / 2854	AGCON 1,MANCO	N. 4	REPORT	Cumulative losses:	AGSUP
- 1	SKOUND ENGAGEMENT 4	2SPF72884	AGCON 1, MANCO	* N	REPORT	Cumulative losses:	NE LIG
	GROUND ENGAGEMENT 4	12SPF72884	AGCON_1,MANCO	4. X	REPORT	Incremental losses:	INE CO
	GROUND_ENGAGEMENT 4	32SPF728845	AGCON 1 MANCO	* XC	REPORT	Invamental becase	1000
	SROUND ENGAGEMENT 4	32SPF728845	AGCON 1.MANCO	4 70	REPORT	Independent passes	AGSOL
060825ZJAN99	ROUND ENGAGEMENT 4	12SPF72884	AGCON 1 MANCO	7 20		indelifell tosses.	AGAIR
	PROFINE ENGAGEMENT &	12505725077	CONTRACTOR	A MOODING		Incremental losses;	SILK5
SEZ LANIOO	SOUTH CALCASEMENT S	1000111000	DONAL POSS	WAINCON B	REPORT	Initial engagement:	SILK
BANNOC	SKOUND ENGAGEMENT S	12SPF / 25977	AGCON 1,MANCO	N. 4, MANCON 6	REPORT	Initial engagement:	INF A1/D
25ZJAN99 (SROUND ENGAGEMENT 5	12SPF725977	AGCON_1,MANCO	N 4,MANCON 6	REPORT	Inkial annanament	
25ZJAN99 C	ROUND ENGAGEMENT 5	12SPF725977	AGCON 1.MANCO	N 4.MANCON 6	REPORT	India accountance	ENG
25Z.JAN99	ROUND FNGAGEMENT 5	13SDE725077	ACCOM 1 MARCO	A MANOON O	KETOKI	intial engagement;	LDVEH2
10008257 JAN99	CONTINUE ENGACEMENT &	1000111000	JOSEPH LIMPIACO	AGCON 1,MANCON 4,MANCON 6	REPORT	intial engagement:	LDVEH3
TOWNS IN	STOUTH ENGLACEMENT	17867/1487	AGCON I, MANCO	N 4, MANCON 6	REPORT	Cumulative losses:	SILKA
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SCOP 102070		HOOFS	707	+		+				
32SPE#20515		TROOPS	483	+		+	+			
2000		2.30	30			•	6			
		0.20	+		- 2	-	0			
		D-20	_		-	0	-			
		D-20			-	0	0			
No damage assessed		CE_PRODUCT			0	0	0			
		TROOPS			0	0	0			
NO ASSESSMENT	WENT		+	0	0	-	0			
					5	9	D			
		HMMWV-10W			5 0		5			
		MIAI	1		5 0	7	5 6			
		TROOPS	-	1.	9 6	- -	4			
8		MIA1		_	0	2	-			
7		TROOPS		6 2	0	0	0			
		MIA1			-	-	-			
NO ASSESSMENT	WENT		+		0	0	0			
		TBOODS			0	0	0			
		I AV.MTR	+	* 0	2 6	5 6	-			
E Product damage fevel in	creased 89 percent	CE PRODUCT			10	, -	-			

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APPENDIX G – SCREEN REPRESENTATION OF MTWS

Figure G1 below shows a drawing of what the MTWS interface looks like. Screen captures did not show the detail well enough to be included. Refer to the MTWS Users Manuals for details about icons and unit representations.

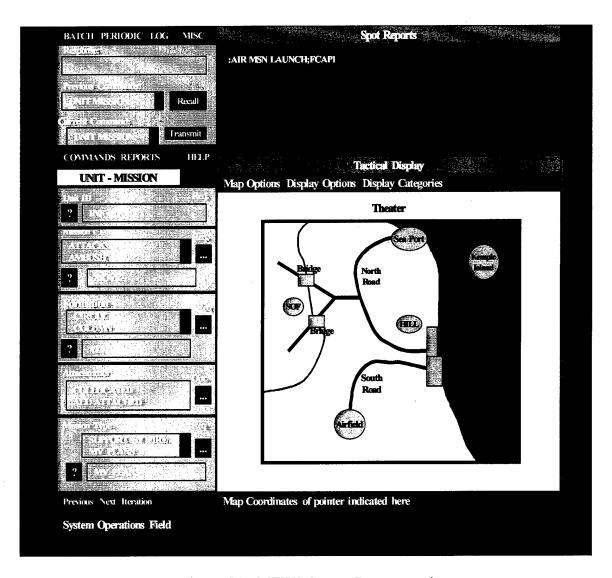


Figure G1. MTWS Screen Representation

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APPENDIX H – OBSERVER AND PLAYER QUESTIONAIRES

Filled in forms are held at ALPHATEC, Inc. by Elliot Entin. Compilations of the data from the forms are available for use by contacting him at Elliot@Alphatec.org.

A. ORGANIZATIONAL AWARENESS QUESTIONNAIRE

A2C2 EXPERIMENT 5 -MTWS ORGANIZATIONAL AWARENESS QUESTIONNAIRE

NAME POSITION TEAM ID TRIAL DATE

Sections	r feighei	Panglog Lamps
1	Hill	Attacking, taking, holding, etc.
2	Beaches	Attacking taking holding etc.
3	Bridge	Blowing-up correct bridge, etc.
4	Airport	Attacking taking holding etc.
5	Seaport	Attacking, taking, holding etc.
6	Ground Tasks	Includes mine clearing, clearing roads, attacking armor, etc.
7	Air Tasks	Includes AAW, CAS, engaging air threats, etc.
8	- Sea Tasks	Includes mine clearing, gunfire support (NSFS), engaging PBs and Subs
9	Reconnaissance/	
	Identification	
10	Medevac	Calling for Medevac, launching Medevac helos
11	. Don't Know	
12 7	Other	Includes non-specific moving, coordinating, attacking, deploying,
4.114	(please specify) 🕸	launching, etc.

Each of the categories listed above describes an important task or group of tasks that team members perform during the scenario. Use these categories to identify what you were doing and what you think others were doing at specific times in the scenario.

1. Think back to when el	lements of the team	had just completed	taking North beach.
--------------------------	---------------------	--------------------	---------------------

a) What task were you performing (or had you just started to work on) at that time? Please select from the table above.

Selection #	(choose one))	
Comments			

b) What tasks do you believe each of the other positions in your team were performing (or had just started to perform) when you began working on the task you selected in (1a)? Write the positions of the other team members in the column at right and select their corresponding task from the table above. If the architecture in which you performed had fewer than five other positions, simply leave the remaining row(s) blank.

Other Positions	Selection #
	·
·	

Now think back to when elements of the team were preparing to take the airfield.

a) What task were you performing (or had you just started to work on) at that time?	Please
select from the table above.	

Selection # (choose one)	
Comments	

b) What tasks do you believe each of the other positions in your team were performing (or had just started to perform) when you began working on the task you selected in (2a)?

Write the positions of the other team members in the column at right and select their corresponding task from the table above. If the architecture in which you performed had fewer than five other positions, simply leave the remaining row(s) blank.

Other Positions	Selection #
	1

Assume that at about the same time intelligence and sensors detected a group of 10-12 fast, leavily armed patrol boats coming out of hiding and heading at high speed toward the beach	ntelligence and sensors detected an enemy counter-force comprised of a company of mechanized infantry and a company of armor leaving the port area and moving down the road to oppose Blue's advance.
c) What two actions would these positions initiate? (Please select from the table on the previous page). Action 1 (Selection #) Action 2 (Selection #) Think back to when Blue forces were moving toward the beach and detected the sea mines. Assume that at about the same time intelligence and sensors detected a group of 10-12 fast, neavily armed patrol boats coming out of hiding and heading at high speed toward the beach ites. a) What position in the team would be required to deal with this? b) From which position in the team would that position first seek assistance? c) What two actions would these positions initiate? (Please select from the table on the previous page). Action 1 (Selection #)	a) What position in the team would be required to deal with this?
Action 1 (Selection #) Action 2 (Selection #) Think back to when Blue forces were moving toward the beach and detected the sea mines. Assume that at about the same time intelligence and sensors detected a group of 10-12 fast, neavily armed patrol boats coming out of hiding and heading at high speed toward the beach ites. a) What position in the team would be required to deal with this? b) From which position in the team would that position first seek assistance? c) What two actions would these positions initiate? (Please select from the table on the previous page). Action 1 (Selection #)	b) From which position in the team would that position first seek assistance?
Action 2 (Selection #)	-
Assume that at about the same time intelligence and sensors detected a group of 10-12 fast, neavily armed patrol boats coming out of hiding and heading at high speed toward the beach ites. a) What position in the team would be required to deal with this? b) From which position in the team would that position first seek assistance? c) What two actions would these positions initiate? (Please select from the table on the previous page). Action 1 (Selection #)	Action 1 (Selection #)
b) From which position in the team would that position first seek assistance? c) What two actions would these positions initiate? (Please select from the table on the previous page). Action 1 (Selection #)	Action 2 (Selection #)
c) What two actions would these positions initiate? (Please select from the table on the previous page). Action 1 (Selection #)	leavily armed patrol boats coming out of hiding and heading at high speed toward the beach ites.
previous page). Action 1 (Selection #)	b) From which position in the team would that position first seek assistance?
	,
Action 2 (Selection #)	Action 1 (Selection #)
	Action 2 (Selection #)

B. TEAM PERFORMANCE ASSESSMENT: OBSERVER RATING FORM

A2C2 EXPERIMENT 5 - MTWS TEAM PERFORMANCE ASSESSMENT: OBSERVER RATING FORM

TEAM ID	TRIAL	DATE	OBSERVER

Instructions for Performance Ratings

The rating process requires that you carefully monitor the actions and communications of the team. The performance ratings are organized around a number of important tasks the team must perform effectively to accomplish the mission and be successful. Note that although only a subset of team members may perform a particular task, it is carried out within the team environment and may be supported by other members prior to execution of the task. Therefore we consider all such actions generically as team performance.

Some tasks will be performed sequentially, others in parallel. As the team confronts each task note their actions and listen to their communications, then rate the quality of their performance for that task. Teams may perform some tasks very well and others not so well. Try to judge the performance of each task independently. Watch out for the "halo effect" - team looked good on tasks one and two, therefore they must be good on all tasks.

To help you rate each task effectively and independently; each task is accompanied by a seven (7) point rating scale. Each scale is associated with a pair of anchors or descriptors that describe in behavioral terms what you should expect to see for very effective (superior) performance and what would connote very ineffective (poor) team performance. A score of 7 always denotes effective or superior performance, while a score of 1 always denotes ineffective or poor performance.

You may wish to take notes and give a tentative rating for each task as it is performed. A definitive rating would then be rendered at the end of the trial. Alternatively, you may wish to take notes on the team's performance for each task and then render a rating for each task at the end of the trial. Either way, when all of the specific tasks have been rated, consider the team's performance across all the tasks. Consider also aspects of team performance you observed during the trial that are not captured in the specific tasks. Then provide an overall performance rating of this team for this trial (scenario).

Try to provide absolute ratings and not relative ratings. That is, do not compare one team's performance to another's, but rather compare a team's performance to the standard provided by the scale anchors.

Before starting, be sure you have reviewed the anchors for each of the specific tasks and for the overall rating. Feel free to provide comments or annotations with each scale to help explain your rating and similarly to provide comments at the end of the form to further describe the team, conditions, special situations, shortcomings in the scales, and the like.

1.]	ake the Hill.	Refers	to takin	g and h	olding	the high	ground	l overlo	oking th	ne beaches.
	Very P	oor	1	2	3	4	5	6	7	Superior
7	Team weighed onecessary to ass casualties.	options, se sault, take	elected ap	propriate d high gr	e mix of cound in	assets (e.g an efficie	g., 1 INF- nt sequen	+1 AIR+l	DDG or 1 ner. Expe	INF+2CAS) erienced few or no
1	Team did not un too late), and/or casualties.									se of action (or did so perienced many
Con	nments:									
2. 1	ake North &	South E	Beaches.	Refers	s to the	coordin	ated att	ack on l	North &	South beaches.
	Very P	oor	1	2	3	4	5	6	7	Superior
7		2 INF + 0	CAS) to a	ssault No	orth and	South bea	ches. No	ecessary s	sequence	ets (e.g., 1 INF + 1 d activities were ted few or no
1	The actions to a an inadequate n									e not well sequenced, casualties.
Con	nments:								•	
_	Cill Tanks on ecution of en							, identif	ication,	and coordinated
	Very P	oor	1	2	.3	4	5	6	7	Superior
7	Team weighed on road to air fi								AS or 2 C	CAS) to destroy tanks
1 '	Team failed to k failed to sequen								ns, used ii	nappropriate assets, or
Con	ments:						· , · ·			
										Refers to all troy correct bridge.
	Very P	oor	1	2	3	4	5	6	7	Superior
7	Team used surve Team brought a	eillance as	e assets (e.g., SOF	r) to bear	to perfor	m all neo	cessary a	ctions to a	and timely manner. attack and halt advance orrect bridge in a timely

	inefficient act not bring appr bridge.	ions allow ropriate as	ed tempo sets to be	and task	king to de	lay their	actions.	Failed to	attack en	emy advance force, did Destroyed incorrect
Co	mments:									····
5. .	Clear SAMs.	Pertain	s to desi	troying	the SA	M instal	lation a	round t	he airfie	eld and the port.
	Very	Poor	1	2	3	4	5	6	7	Superior
7	SAM installat	ions aroun	d the airf	field and	the port i	n an effic	ient and	timely fa	shion. Tl) to bear to destroy ne attacks were carried few casualties.
1	Team failed to inefficient, and forces took ma	d attacks o	n the SA	llations a Ms were	round the	e airfield a	and the p cks on the	ort. Or u e airfield	sed inapp and port	propriate assets, were were held up (Blue
	nments:									
6.]	Kill pop-up F llery range ar	ROG laund must be	inchers. De destro	. Refer	s to ene	my FRC)G laun	chers th	nat pop i	up out of friendly
	Very]	Poor	1	2	3	4	5	6	7	Superior
7	Team quickly r course of action Few casualties	on (e.g., CA	threat to AS or DD	personn G fire) to	el on bea o destroy	ch, consic FROG la	lered opt unchers.	ions, and Assets u	selected	appropriate imely manner.
	Team did not re					and/or di		g to destro	oy them.	Many casualties.
7. <u>/</u> port	Attack on Air							round a	attack to	take airfield and
,	Very I	Poor	1	2	3	4	5	6	7	Superior
7	Team weighed (e.g., 2 INF + 1 Few casualties	l CAS or 2	d conduc ! INF+ D	t a seque DG) to ta	nced air ake airfie	and groun ld and po	nd attack rt in an e	using app fficient a	propriate nd timely	asset mix fashion.
1 '	Team failed to learry out an att	launch atta ack (coord	ck to take linated or	e airfield r otherwi	and/or p se) and w	ort. Or divas neithe	id not ch r efficien	oose appi it or time	ropriate c ly. Many	ourse of action to casualties.
Con	nments:	····						·		
8. <u>A</u>	Anti-Air War	fare. Ref	ers to p	rotectir	ng the B	attle Gr	oup fro	m all ai	r threats	i.
	Very P	oor	1	2	3	4	5	6	7	Superior
7 :	Feam exhibited effectively dest	early, com	ect ident	ification reats witl	of air thr	eats (while riate asset	le enemy s (e.g., 1	is beyon VF or SI	d their ef	fective range) and

1 Team failed to positively identify enemy advance force, or missed timely opportunities to do so because

1		ailed to effective tly identify an e								ainst threat). Or failed t s.	.0
		e and Subsurf e threats.	ace Wa	<u>rfare</u> . R	efers to	protect	ing the	Battle	Group fi	om all surface and	
		Very Poor	1	2	3	4	5	6	7	Superior	
7		exhibited early, ovely destroyed e								effective range) and g., FFG).	
1										inst threat). Or failed to y afflicted casualties.	0
		ion making and course of a				election	Refer	s to the	quality	of a team's decision	1
		Very Poor	1	2	3	4	5	6	7	Superior	
7	enemy									re consequences, and ner. Effectively	
1		ailed to consider								emy's point of view. W	as
11.	Overa	all performance	e rating	of this	team fo	or this so	enario	<u>.</u>			
		Very Poor	1	2	3	4	5	6	7	Superior	
7	Teams	consistently scor	red well o	n the abo	ove 10 cr	ritical task	s, as we	ll as on o	ther unas	sessed areas.	
1	Teams	consistently scor	red poorly	on the a	bove 10	critical ta	sks, as v	vell as or	other un	assessed areas.	
Cor	mment	s:		·							
		ž.				÷					

C. TEAMWORK ASSESSMENT: OBSERVER RATING FORM

A2C2 EXPERIMENT 5 TEAMWORK ASSESSMENT: OBSERVER RATING FORM

TEAM ID TRIAL DATE OBSERVER	TEAM ID	TRIAL	DATE	OBSERVER
-----------------------------	---------	-------	------	----------

Instructions for Teamwork Ratings

Observer the team's behavior carefully. Then rate the team's teamwork skills using the questions and scales on the following pages. The seven rating scales or questions for teamwork are organized into five areas. To guide you in your ratings each area is defined below. Please read these definitions carefully.

Teams may be high on some teamwork skills and low on others. Try to judge each skill independently. Watch out for the "halo effect" - team is high on one or two skills, thus they must be high on all skills.

Consider each team separately. Try not to compare one team to another. Instead, strive to rate the behavior of a team on an absolute scale. To help you make your ratings effectively and independently, each question is accompanied by a seven point behaviorally anchored scale. The pair of anchors describe in behavioral terms what you should observe for the highest rating of a teamwork skill - or a score of 7 and what you should observe for the lowest rating of a teamwork skill - or a score of 1. Read these guides or anchors carefully and refer to them as you rate the team on each item. Feel free to write comments or explanations for any item.

Communication Behavior

Communication involves the exchange of information between two or more team members in the prescribed manner and using proper terminology. Often the purpose of communication is to clarify or acknowledge the receipt of information.

Monitoring Behavior

Monitoring refers to observing the activities and performance of other team members. It implies that team members are individually competent and that they may subsequently provide feedback and backup behavior.

Back-up Behavior

Backup behavior involves assisting the performance of other team members. This implies that team members have an understanding of other members' tasks. It also implies that members are willing to give and seek assistance.

Coordination Behavior

Coordination refers to team members' executing their activities in a timely and integrated manner. It implies that the performance of some team members influences the performance of

other team members. This may involve an exchange of information that subsequently influences another member's performance.

Team Orientation

Team orientation refers to the commitment team members exhibit to working together. It implies that they place the goals and interest of the team ahead of their personal goals. It also refers to the trust each team member has in the other team members, team pride, and esprit de corps.

Communication Behavior

1.	To what	extent were	errors	caused	by	inadequate '	team	communication	n?
-					•				

1	2	I ³	4	5	6	7

- 7 Communication within the team was always effective and never responsible for errors or inefficient performance.
- 1 Communication was wholly inadequate and resulted in inefficient performance and many of the errors made by the team.
- 2. To what extent did team members provide relevant information to another team member, in a pro-active way, without that team member having to ask for it?

- 7 Team members always provided important information to others without being asked.
- 1 Team members never provided information to others unless specifically asked.

Comments:

Monitoring Behavior

3. To what extent did team members alert each other to impending decisions and actions?

1 | 2 | 3 | 4 | 5 | 6 | 7

7 Team members always alerted each other to impending decisions and actions; supporting information was actively solicited from other team members.

	 Team members did n mission safety or mission significant information. 	ot ke n effe	eep e ectiv	each ene	othe ss ar	r info	rmed hen	d of in a team	npene mer	ding o	lecisi waite	ons a	and a	ction other	is; co to v	ompro olunte	mises eer	to
Co	mments:																	
Ba	ck-up Behavior													,		,		
4. me	To what extent did to mbers?	am	me	mb	ers a	intic	ipate	e the	need	l to p	orov	ide a	assis	stano	ce to	othe	er tea	m
			1	1	2		3	<u></u>	<u> </u>	5		6		7				
	7 Team members consithe mission.	stent	ly ar	ntici	pated	d the	need	to pro	vide	assist	ance	to o	thers	duri	ng cr	itical	phase	s of
	1 Team members never mission; the others alway	antio	cipa d to	ted 1 ask.	the n	eed to	pro	vide a	ssista	ince to	o oth	ers d	uring	g crit	ical p	hases	of th	e
Co	mments:																	
5.	Did the team member												evei	nt o	verlo	oad?	•	
			1	L	2	1_	3	4		5		6	1	7	}			
	7 Team members were division of task responsib	consi ilitie	isten s to	tly a	awar istrib	e of e ute w	ach c	other's oad.	worl	cload	build	lup a	nd re	acte	d qui	ckly t	o adjı	ıst
	1 Team members were adjust the distribution of effectiveness occurred.	gener task 1	rally resp	una onsi	ware biliti	e of e	ach o	other's signifi	work cant	cload comp	build romi	lup; l ses t	little o mis	or no	atte safe	mpt v ty or 1	vas ma nissio	ade to n
Coı	nments:					·												
Co	ordination Behavior														-			
6.	To what extent was th	ie te	am'	's b	ehav	ior o	coor	dinat	ed?									
•		1	I		2	1 3	3 1	4	l	5		6	<u> </u>	7]		·	
	7 Good coordination bel members, thereby enablin timely manner enabling of the relevant parts of one a	g the thers	m to	arry	comp out	olish t their	asks; tasks	mem effec	bers tively	consi: /. Te:	stent! am m	ly car remb	rry o	ut ta: ppea	sks q	uickly v fam	or in	а

	delays in execution of critical tasks; members neglect to pass on critical pieces of information to one another leading to breakdowns in team performance; team members carry out their tasks with significant delays leading to team errors.
Co	mments:
Te	am Orientation
7. mi:	How congruent/similar were the CJTF's and the other team members' understanding of the ssion?
	1 2 3 4 5 6 7
	7 Commander and other team members were completely in agreement (i.e., congruent) on goals, tasks, and concepts involving the mission.
	1 Commander and other team members were rarely in agreement (i.e., congruent) on goals, tasks, and concepts involving the mission.
Co	mments:

1 Poor coordination behavior occurs when team members consistently carry out their tasks ineffectively, leading to other team members' failing at their tasks; members carry out their tasks unpredictably, leading to

D. TASK LOAD INDEX - WORKLOAD ASSESSMENT QUESTIONNAIRE

A2C2 Experiment 5 TLX WORKLOAD ASSESSMENT QUESTIONNAIRE

AME	CELL	POSITION	TRIAL	TIME PERIOD	
		Self Workload			
Mental Dema	and	Very Low		Very Higl	
Temporal De	mand	Very Low		Very High	
Effort		Very Low		Very High Very High	
Frustration		L L L Very Low		Very High	
Cell Workload					
	Cell		. Overall Wor	The state of the s	
FLAG		very Low.		Very High	
BLUE		Very Low.		Very High	
GREEN		Very Low:		Very High	
PURPLE :		Very Low .	i lie je je Podenica	Very High	
RED				Very High	
ORANGI				Very High	
Flag Cell Workload					
Unit			Overall Workload		
Current Ops		Very Low	Very Low Very High		
Future Ops		Very Low			
Effects Coordination Board		Very Low		Very High	

TASK LOAD INDEX (TLX) WORKLOAD QUESTIONNAIRE

INSTRUCTIONS

Workload is a difficult concept to define precisely, but a simple one to understand generally. The factors that influence your experience of workload may come from the task itself, your feelings about your own performance, how much effort you put in, or the stress and frustration you felt. The workload contributed by different task elements may change as you become more familiar with a task, perform easier or harder versions of it, or move from one task to another. Physical components of workload are relatively easy to conceptualize and evaluate; the mental components are more difficult to measure.

Workload is something that is experienced individually by each person. There are no effective "rules" that can be used to estimate the workload of different activities. One way to find out about workload is to ask people to describe the feelings they experienced. The following questionnaire will be distributed at the end of each trial; it is divided into three sections. In section one you will be asked to assess your own workload experience during the just completed trial in terms of four factors: mental demand, temporal demand, effort, and frustration. In section two (shaded), we ask you to evaluate the overall workload of each of the cells in the organization. Because it is much more difficult to accurately describe the feelings of others, we only ask you to formulate a global workload evaluation for each of the other cells. In section three, we ask those of you who are in the Flag cell to evaluate the overall workload experienced by three units in the Flag cell: current ops, future ops, and the effects coordination board. Those of you who are not in the Flag cell may omit section 3 of the workload questionnaire. For your convenience, we have prepared and attached an example questionnaire to which you may refer for more specific instructions.

The four component rating scales used in section one of this questionnaire were developed for you to use in evaluating your workload experience during a particular segment of the A2C2 experiment 5. Please read the attached descriptions of the scales carefully. If you have questions about any of the scales, you can ask them now or you can hold your questions until the first workload assessment period and ask them at that time, in the context of the task you have just performed. It is important that the scales are clear to you. The descriptions of the scales will always be available to you when you do your workload ratings. Ask if you wish to review them.

Please consider your responses carefully as you respond to the scales at the end of each trial. Consider each scale individually. Your accurate ratings will play an important role in the assessment being conducted.

DEFINITION OF THE TLX SCALES

The **mental demand** scale asks you to rate how much mental and perceptual activity was required (e.g., thinking, deciding, calculating, remembering, looking, searching, etc.). Was the task or situation easy or demanding, simple or complex, exacting or forgiving? Make this rating on a scale from very low mental demand to very high mental demand.

The **temporal demand** scale asks you to rate how much time pressure you felt due to the rate or pace at which the task or task elements occurred. Was the pace slow and leisurely or rapid and frantic? Make this rating on a scale from very low temporal demand to very high temporal demand.

The **effort** scale asks you to rate how hard you had to work mentally to accomplish your level of performance. Make this rating on a scale from very low effort (not hard at all) to very high effort (very hard).

The **frustration** scale asks how insecure, discouraged, irritated, stressed, and annoyed versus secure, gratified, content, relaxed, and complacent you felt during the situation that you just experienced. Make this rating on a scale from very low frustration to very high frustration.

APPENDIX I - MTWS BATCH FILES

Listed below are the MTWS Batch Files used to create the scenario, the timed Red Force assets, and created all the Blue Force Assets used in the scenario. The A2C2_CONSTRUCT shows how all of the objects were created for the scenario like roads, bridges, the seaport and airport. A2C2_ORD_LOAD describes the various ordinance loads available to air assets for the Blue Force. A2C2_AG_AIR

A. A2C2 CONSTRUCT

```
# Create base
CE; CREATE; BASE; STRUCTURE; CONTRETE-STRUCT; 32SPG727000; 12; 20; 50; $
# Create roads
CE; CONSTRUCT; NORTH RD;;; IMPROVED SURFACE; ROAD; CONCRETE-2-LANE; (0432SPF852923:
32SPF775947;32SPG793040;32SPG818051;}$
CE; CONSTRUCT; SOUTH RD;;; IMPROVED SURFACE; ROAD; CONCRETE-2-LANE; {0432SPF858907;
32SPF788881;32SPF725904;32SPF728845;}$
CE; CONSTRUCT; WEST RD;;; IMPROVED SURFACE; ROAD; CONCRETE-2-LANE; {0232SPG785000;
32SPF752999;}$
CE; CONSTRUCT; RT 1;;; IMPROVED SURFACE; ROAD; CONCRETE-2-LANE; {0432SPG730017;
32SPG735008;32SPG746003;32SPF752999;}$
CE; CONSTRUCT; RT 2;;; IMPROVED SURFACE; ROAD; CONCRETE-2-LANE; {0432SPF726976;
32SPF731990;32SPF740993;32SPF751998;}$
CE; CONSTRUCT; NOR
BCH;;;IMPROVED SURFACE;ROAD;GRAVEL;{0232SPF847939;32SPF856920;
CE; CONSTRUCT; SOUTH BCH;;; IMPROVED SURFACE; ROAD; GRAVEL; {0232SPF864893;
32SPF858912;}$
# Create river and bridges
CE; CREATE; RIVER; NATURAL TERRAIN; RIVER; RIVER; 30; {1032SPG737025; 32SPG745016;
32'SPG743009; 32SPG740002; 32SPF738995; 32SPF742988; 32SPF743980; 32SPF742973;
32SPF738963;32SPF735952;}$
CE; CONSTRUCT; BR1;;; IMPROVED SURFACE; BRIDGE; CONCRETE-BRIDGE-
A; 32SPG741005; RIVER;
CE; CONSTRUCT; BR2;;; IMPROVED SURFACE; BRIDGE; CONCRETE-BRIDGE-
A; 32SPF739992; RIVER;
# Create miscellaneous structures
CE; CREATE; SEAPRT; STRUCTURE; PORT-FACILITY; 32SPG821052; 12; 20; 50; $
CE; CREATE; HILL; NATURAL TERRAIN; MOUNTAIN; MOUNTAIN; {0332SPF845937; 32SPF837931;
32SPF850927;}$
CE; CREATE; ISLAND; NATURAL TERRAIN; MOUNTAIN; MOUNTAIN; (0532SPG978062; 32SPG940061;
32SPG936033;32SPG984018;32SPG994046;}$
CE; CREATE; E PRT; STRUCTURE; PORT-FACILITY; 32SPG939035; 20; 20; 30; $
CE; CREATE; W PRT; STRUCTURE; PORT-FACILITY; 32SPG988051; 20; 20; 30; $
CE; CREATE; N PRT; STRUCTURE; PORT-FACILITY; 32SPG804065; 20; 20; 30; $
```

```
CE; CREATE; S PRT; STRUCTURE; PORT-FACILITY; 32SPF880851; 20; 20; 30; $
CE; CREATE; AIRPRT; STRUCTURE; PORT-FACILITY; 32SPF729833; 30; 70; 70; $
# Create sea mines
CE; CONSTRUCT; SM1;;; OBSTACLE; MINE; AG; M-FLD-AS-LOW; {0432SPG931016; 32SPG924013;
32SPG918020;32SPG924023;}$
CE; CONSTRUCT; SM2;;; OBSTACLE; MINE; AG; M-FLD-AS-LOW; {0332SPF876997; 32SPF869998;
32SPG870006;}$
CE; CONSTRUCT; SM3;;; OBSTACLE; MINE; AG; M-FLD-AS-LOW; {0432SPG855017; 32SPG846018;
32SPG846024;32SPG855023;}$
CE; CONSTRUCT; SM4;;; OBSTACLE; MINE; AG; M-FLD-AS-LOW; {0432SPG877057; 32SPG866056;
32SPG860060;32SPG870062;}$
CE; CONSTRUCT; SM5;;; OBSTACLE; MINE; AG; M-FLD-AS-LOW; {0332SPG998051; 32SPG995052;
32SPG999054;}$
CE; CONSTRUCT; SM6;;; OBSTACLE; MINE; AG; M-FLD-AS-LOW; {0432SPF862933;32SPF866921;
32SPF862920;32SPF857933;}$
CE; CONSTRUCT; SM7;;; OBSTACLE; MINE; AG; M-FLD-AS-LOW; {0432SPF875892; 32SPF870891;
32SPF864910;32SPF869912;}$
CE; CONSTRUCT; SM8;;; OBSTACLE; MINE; AG; M-FLD-AS-LOW; {0432SPF893851; 32SPF890852;
.32SPF889855;32SPF893853;}$
# Create minefields
CE; CONSTRUCT; M1;;; OBSTACLE; MINE; AG; M-FLD-AP-LOW; {0432SPF774953; 32SPF777953;
32SPF778955;32SPF775955;}$
CE; CONSTRUCT; M2;;; OBSTACLE; MINE; AG; M-FLD-AP-LOW; {0432SPG816049; 32SPG815050;
32SPG815051;32SPG817049;}$
CE; CONSTRUCT; M3;;; OBSTACLE; MINE; AG; M-FLD-AP-LOW; {0432SPF796882;32SPF793881;
32SPF792884;32SPF795885;}$
CE; CONSTRUCT; M4;;; OBSTACLE; MINE; AG; M-FLD-AT-LOW; {0432SPF795881;32SPF794880;
32SPF793884;32SPF794884;}$
CE; CONSTRUCT; M5;;; OBSTACLE; MINE; AG; M-FLD-AP-LOW; {0432SPF734861;32SPF721861;
32SPF721857;32SPF734856;}$
```

B. A2C2 ORD LOAD

```
ORD_LOAD; DEFINE; VROK; LF; { 02ROCKEYE-BOMB; 6; MT; AIM-9-MSL; 2; NONE; } $ ORD_LOAD; DEFINE; VHARM; LF; { 02HARM-MSL; 4; MT; AIM-9-MSL; 2; NONE; } $ ORD_LOAD; DEFINE; VMAV; LF; { 02MAVERICK-LG-MSL; 4; MT; AIM-9-MSL; 2; NONE; } $ ORD_LOAD; DEFINE; V82; LF; { 02MK-82-BOMB; 6; MT; AIM-9-MSL; 2; NONE; } $ ORD_LOAD; DEFINE; V83; LF; { 02MK-83-BOMB; 6; MT; AIM-9-MSL; 2; NONE; } $ ORD_LOAD; DEFINE; V84; LF; { 02MK-84-BOMB; 6; MT; AIM-9-MSL; 2; NONE; } $ ORD_LOAD; DEFINE; VAIM; LF; { 02AIM-120-MSL; 2; NONE; AIM-9-MSL; 2; NONE; } $ ORD_LOAD; DEFINE; VHARP; LF; { 01HARPOON-WH; 1; Q; } $ ORD_LOAD; DEFINE; VPHX; LF; { 02AIM-54-MSL; 4; NONE; AIM-9-MSL; 2; NONE; } $
```

C. A2C2 AG AIR

```
UNIT; DEFINE; AGSUP; AG; SUPPLY; COMPANY; 32SPF729830; AGCON_1;; SIMULATED; FALSE; YES;
OPFOR; AV_ORD; $
UNIT; DEFINE; AGAIR; AG; AIR_SQUADRON; SQUADRON; 32SPF729830; AGCON_1;; SIMULATED; TRUE;
YES; USMC; VMFA; $
AIRFIELD; DEFINE; AGFLD; 32SPF729830; OPEN; AGSUP; AGSUP; {01AGAIR; } {00; } $
#
UNIT; DEFINE; AGSUP1; AG; SUPPLY; COMPANY; 32SPF603645; AGCON_1;; SIMULATED; FALSE; YES;
OPFOR; AV_ORD; $
```

```
UNIT; DEFINE; AGAIR1; AG; AIR_SQUADRON; SQUADRON; 32SPF603645; AGCON_1;; SIMULATED;
TRUE; YES; USMC; VMFA; $
AIRCRAFT; DEFINE; MI-24-HIND; AGAIR1; 3333; QUANTITY; 24; $
AIRCRAFT; DEFINE; SU-24-FENCER; AGAIR1; 4444; QUANTITY; 24; $
AIRFIELD; DEFINE; AGFLD1; 32SPF603645; OPEN; AGSUP1; AGSUP1; {01AGAIR1; } {00; } $
ORD_LOAD; DEFINE; AGORD1; AG; {0130MM-HE-AC; 700; NONE; } $
ORD_LOAD; DEFINE; AGORD2; AG; {01500KG-GP-BOMB; 6; MT; } $
```

D. A2C2 AG GRD

```
UNIT; DEFINE; HILLIFY; AG; INFANTRY; SECTION; 32SPF842931; AGCON 1;; SIMULATED; FALSE;
YES; USMC; HMG; $
UNIT; DEFINE; ARTY1; AG; ARTILLERY; SECTION; 32SPF578805; AGCON 1;; SIMULATED; FALSE; NO
ASSETS; UPDATE; ARTY1; TROOPS; { 018; HEALTHY; }$
ASSETS; UPDATE; ARTY1; ASSET; {02152MM-HE; 50; OPERATIONAL; D-20; 2; OPERATIONAL; }$
ASSETS; UPDATE; ARTY1; FUEL; 100; $
ASSETS; UPDATE; ARTY1; RATIONS; 20;$
ASSETS; UPDATE; ARTY1; WATER; 20;$
UNIT; DEFINE; ARTY2; AG; ARTILLERY; SECTION; 32SPF580784; AGCON 1;; SIMULATED; FALSE; NO
ASSETS; UPDATE; ARTY2; TROOPS; { 018; HEALTHY; }$
ASSETS; UPDATE; ARTY2; ASSET; {02152MM-HE; 50; OPERATIONAL; D-20; 2; OPERATIONAL; }$
ASSETS; UPDATE; ARTY2; FUEL; 100; $
ASSETS; UPDATE; ARTY2; RATIONS; 20; $
ASSETS; UPDATE; ARTY2; WATER; 20; $
UNIT; DEFINE; ARTY3; AG; ARTILLERY; SECTION; 32SPF582767; AGCON 1;; SIMULATED; FALSE; NO
ASSETS; UPDATE; ARTY3; TROOPS; {018; HEALTHY; }$
ASSETS; UPDATE; ARTY3; ASSET; {02152MM-HE; 50; OPERATIONAL; D-20; 2; OPERATIONAL; }$
ASSETS; UPDATE; ARTY3; FUEL; 100; $
ASSETS; UPDATE; ARTY3; RATIONS; 20;$
ASSETS; UPDATE; ARTY3; WATER; 20; $
UNIT; DEFINE; ARTY4; AG; ARTILLERY; SECTION; 32SPF582753; AGCON 1;; SIMULATED; FALSE; NO
ASSETS; UPDATE; ARTY4; TROOPS; { 018; HEALTHY; }$
ASSETS; UPDATE; ARTY4; ASSET; {02152MM-HE; 50; OPERATIONAL; D-20; 2; OPERATIONAL; }$
ASSETS; UPDATE; ARTY4; FUEL; 100; $
ASSETS; UPDATE; ARTY4; RATIONS; 20; $
ASSETS; UPDATE; ARTY4; WATER; 20;$
UNIT; DEFINE; SILK1; AG; ARTILLERY; SECTION; 32SPF597807; AGCON 1;; SIMULATED; FALSE; NO
ASSETS; UPDATE; SILK1; TROOPS; {018; HEALTHY; }$
ASSETS; UPDATE; SILK1; ASSET; { 02152MM-HE; 50; OPERATIONAL; D-20; 2; OPERATIONAL; }$
ASSETS; UPDATE; SILK1; FUEL; 100; $
ASSETS; UPDATE; SILK1; RATIONS; 20; $
ASSETS; UPDATE; SILK1; WATER; 20; $
```

```
UNIT; DEFINE; SILK2; AG; ARTILLERY; SECTION; 32SPF597789; AGCON 1;; SIMULATED; FALSE; NO
$
ASSETS; UPDATE; SILK2; TROOPS; { 018; HEALTHY; } $
ASSETS; UPDATE; SILK2; ASSET; {02152MM-HE; 50; OPERATIONAL; D-20; 2; OPERATIONAL; }$
ASSETS; UPDATE; SILK2; FUEL; 100; $
ASSETS; UPDATE; SILK2; RATIONS; 20; $
ASSETS; UPDATE; SILK2; WATER; 20; $
UNIT; DEFINE; SILK3; AG; ARTILLERY; SECTION; 32SPF600769; AGCON 1;; SIMULATED; FALSE; NO
ASSETS; UPDATE; SILK3; TROOPS; {018; HEALTHY; }$
ASSETS; UPDATE; SILK3; ASSET; {02152MM-HE; 50; OPERATIONAL; D-20; 2; OPERATIONAL; } $
ASSETS; UPDATE; SILK3; FUEL; 100; $
ASSETS; UPDATE; SILK3; RATIONS; 20; $
ASSETS; UPDATE; SILK3; WATER; 20; $
UNIT; DEFINE; SILK4; AG; ARTILLERY; SECTION; 32SPF601755; AGCON 1;; SIMULATED; FALSE; NO
ASSETS; UPDATE; SILK4; TROOPS; { 018; HEALTHY; } $
ASSETS; UPDATE; SILK4; ASSET; {02152MM-HE; 50; OPERATIONAL; D-20; 2; OPERATIONAL; }$
ASSETS; UPDATE; SILK4; FUEL; 100; $
ASSETS; UPDATE; SILK4; RATIONS; 20; $
ASSETS; UPDATE; SILK4; WATER; 20; $
UNIT; DEFINE; SILK5; AG; ARTILLERY; SECTION; 32SPF602743; AGCON 1;; SIMULATED; FALSE; NO
ASSETS; UPDATE; SILK5; TROOPS; { 018; HEALTHY; } $
ASSETS; UPDATE; SILK5; ASSET; {02152MM-HE; 50; OPERATIONAL; D-20; 2; OPERATIONAL; }$
ASSETS; UPDATE; SILK5; FUEL; 100; $
ASSETS; UPDATE; SILK5; RATIONS; 20; $
ASSETS; UPDATE; SILK5; WATER; 20; $
UNIT; DEFINE; SAM1; AG; AIR DEFENSE; SECTION; 32SPF547805; AGCON 1;; SIMULATED; FALSE;
NO;$
ASSETS; UPDATE; SAM1; TROOPS; { 014; HEALTHY; } $
ASSETS; UPDATE; SAM1; FUEL; 100; $
ASSETS; UPDATE; SAM1; RATIONS; 30; $
ASSETS; UPDATE; SAM1; WATER; 20; $
ASSETS; UPDATE; SAM1; ASSET; { 01SA-9-MSL; 4; OPERATIONAL; } $
ASSETS; UPDATE; SAM1; ASSET; { 01SA-9-SPADML; 1; OPERATIONAL; } $
UNIT; DEFINE; SAM2; AG; AIR DEFENSE; SECTION; 32SPF549781; AGCON 1;; SIMULATED; FALSE;
NO;$
ASSETS; UPDATE; SAM2; FUEL; 100; $
ASSETS; UPDATE; SAM2; RATIONS; 20; $
ASSETS; UPDATE; SAM2; WATER; 20; $
ASSETS; UPDATE; SAM2; TROOPS; { 014; HEALTHY; } $
ASSETS; UPDATE; SAM2; ASSET; { 01SA-9-MSL; 4; OPERATIONAL; } $
ASSETS; UPDATE; SAM2; ASSET; { 01SA-9-SPADML; 1; OPERATIONAL; } $
UNIT; DEFINE; SAM3; AG; AIR DEFENSE; SECTION; 32SPF548761; AGCON 1;; SIMULATED; FALSE;
NO;$
ASSETS; UPDATE; SAM3; TROOPS; { 014; HEALTHY; } $
ASSETS; UPDATE; SAM3; FUEL; 100; $
ASSETS; UPDATE; SAM3; RATIONS; 20; $
ASSETS; UPDATE; SAM3; WATER; 20; $
ASSETS; UPDATE; SAM3; ASSET; { 01SA-9-MSL; 4; OPERATIONAL; } $
```

```
ASSETS; UPDATE; SAM3; ASSET; { 01SA-9-SPADML; 1; OPERATIONAL; } $
UNIT; DEFINE; SAM4; AG; AIR DEFENSE; SECTION; 32SPF550740; AGCON 1;; SIMULATED; FALSE;
ASSETS; UPDATE; SAM4; FUEL; 100; $
ASSETS; UPDATE; SAM4; RATIONS; 30; $
ASSETS; UPDATE; SAM4; WATER; 20; $
UNIT; DEFINE; SAM5; AG; AIR DEFENSE; SECTION; 32SPF550722; AGCON 1;; SIMULATED; FALSE;
ASSETS; UPDATE; SAM5; FUEL; 100; $
ASSETS; UPDATE; SAM5; RATIONS; 20; $
ASSETS; UPDATE; SAM5; WATER; 20; $
ASSETS; UPDATE; SAM5; TROOPS; { 014; HEALTHY; } $
UNIT; DEFINE; SAM6; AG; AIR DEFENSE; SECTION; 32SPF551708; AGCON 1;; SIMULATED; FALSE;
ASSETS; UPDATE; SAM6; TROOPS; { 014; HEALTHY; } $
ASSETS; UPDATE; SAM6; FUEL; 100; $
ASSETS; UPDATE; SAM6; RATIONS; 20;$
ASSETS; UPDATE; SAM6; WATER; 20; $
UNIT; DEFINE; FROG1; AG; ARTILLERY; SECTION; 32SPF523806; MANCON 2;; SIMULATED; FALSE;
NO;$
ASSETS; UPDATE; FROG1; TROOPS; { 014; HEALTHY; } $
ASSETS; UPDATE; FROG1; ASSET; {01FROG-7-HE-MSL; 4; OPERATIONAL; }$
ASSETS; UPDATE; FROG1; ASSET; { 01FROG-7-SSM; 1; OPERATIONAL; } $
ASSETS; UPDATE; FROG1; FUEL; 100;$
ASSETS; UPDATE; FROG1; RATIONS; 20; $
ASSETS; UPDATE; FROG1; WATER; 20;$
UNIT; DEFINE; FROG2; AG; ARTILLERY; SECTION; 32SPF524782; AGCON 1;; SIMULATED; FALSE; NO
ASSETS; UPDATE; FROG2; TROOPS; { 014; HEALTHY; }$
ASSETS; UPDATE; FROG2; ASSET; { 01FROG-7-HE-MSL; 4; OPERATIONAL; }$
ASSETS; UPDATE; FROG2; ASSET; { 01FROG-7-SSM; 1; OPERATIONAL; } $
ASSETS; UPDATE; FROG2; FUEL; 100; $
ASSETS; UPDATE; FROG2; RATIONS; 20; $
ASSETS; UPDATE; FROG2; WATER; 20; $
UNIT; DEFINE; FROG3; AG; ARTILLERY; SECTION; 32SPF524763; AGCON 1;; SIMULATED; FALSE; NO
ASSETS; UPDATE; FROG3; TROOPS; { 014; HEALTHY; } $
ASSETS; UPDATE; FROG3; ASSET; { 01FROG-7-HE-MSL; 4; OPERATIONAL; }$
ASSETS; UPDATE; FROG3; ASSET; { 01FROG-7-SSM; 1; OPERATIONAL; }$
ASSETS; UPDATE; FROG3; FUEL; 100; $
ASSETS; UPDATE; FROG3; RATIONS; 20; $
ASSETS; UPDATE; FROG3; WATER; 20;$
UNIT; DEFINE; FROG4; AG; ARTILLERY; SECTION; 32SPF524742; AGCON 1;; SIMULATED; FALSE; NO
ASSETS; UPDATE; FROG4; TROOPS; {014; HEALTHY; }$
ASSETS; UPDATE; FROG4; ASSET; {01FROG-7-HE-MSL; 4; OPERATIONAL; }$
ASSETS; UPDATE; FROG4; ASSET; { 01FROG-7-SSM; 1; OPERATIONAL; } $
ASSETS; UPDATE; FROG4; FUEL; 100; $
ASSETS; UPDATE; FROG4; RATIONS; 20; $
ASSETS; UPDATE; FROG4; WATER; 20;$
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UNIT; DEFINE; FROG5; AG; ARTILLERY; SECTION; 32SPF525723; AGCON 1;; SIMULATED; FALSE; NO
ASSETS; UPDATE; FROG5; TROOPS; { 014; HEALTHY; } $
ASSETS; UPDATE; FROG5; ASSET; { 01FROG-7-HE-MSL; 4; OPERATIONAL; } $
ASSETS; UPDATE; FROG5; ASSET; { 01FROG-7-SSM; 1; OPERATIONAL; }$
ASSETS; UPDATE; FROG5; FUEL; 100; $
ASSETS; UPDATE; FROG5; RATIONS; 20; $
ASSETS; UPDATE; FROG5; WATER; 20; $
UNIT; DEFINE; FROG6; AG; ARTILLERY; SECTION; 32SPF525708; AGCON_1;; SIMULATED; FALSE; NO
ASSETS; UPDATE; FROG6; TROOPS; { 014; HEALTHY; }$
ASSETS; UPDATE; FROG6; ASSET; { 01FROG-7-HE-MSL; 4; OPERATIONAL; }$
ASSETS; UPDATE; FROG6; ASSET; { 01FROG-7-SSM; 1; OPERATIONAL; } $
ASSETS; UPDATE; FROG6; FUEL; 100; $
ASSETS; UPDATE; FROG6; RATIONS; 20; $
ASSETS; UPDATE; FROG6; WATER; 20; $
UNIT; DEFINE; FROG7; AG; ARTILLERY; SECTION; 32SPF528688; AGCON 1;; SIMULATED; FALSE; NO
ASSETS; UPDATE; FROG7; TROOPS; { 014; HEALTHY; }$
ASSETS; UPDATE; FROG7; ASSET; { 01FROG-7-HE-MSL; 4; OPERATIONAL; } $
ASSETS; UPDATE; FROG7; ASSET; { 01FROG-7-SSM; 1; OPERATIONAL; }$
ASSETS; UPDATE; FROG7; FUEL; 100; $
ASSETS; UPDATE; FROG7; RATIONS; 20; $
ASSETS; UPDATE; FROG7; WATER; 20; $
UNIT; DEFINE; FROG8; AG; ARTILLERY; SECTION; 32SPF527674; AGCON 1;; SIMULATED; FALSE; NO
ASSETS; UPDATE; FROG8; TROOPS; {014; HEALTHY; }$
ASSETS; UPDATE; FROG8; ASSET; { 01FROG-7-HE-MSL; 4; OPERATIONAL; }$
ASSETS; UPDATE; FROG8; ASSET; { 01FROG-7-SSM; 1; OPERATIONAL; }$
ASSETS; UPDATE; FROG8; FUEL; 100; $
ASSETS; UPDATE; FROG8; RATIONS; 20; $
ASSETS; UPDATE; FROG8; WATER; 20; $
UNIT; DEFINE; FROG9; AG; ARTILLERY; SECTION; 32SPF528660; AGCON 1;; SIMULATED; FALSE; NO
ASSETS; UPDATE; FROG9; TROOPS; {014; HEALTHY; }$
ASSETS; UPDATE; FROG9; ASSET; { 01FROG-7-HE-MSL; 4; OPERATIONAL; } $
ASSETS; UPDATE; FROG9; ASSET; { 01FROG-7-SSM; 1; OPERATIONAL; }$
ASSETS; UPDATE; FROG9; FUEL; 100; $
ASSETS; UPDATE; FROG9; RATIONS; 20; $
ASSETS; UPDATE; FROG9; WATER; 20; $
UNIT; DEFINE; FROG10; AG; ARTILLERY; SECTION; 32SPF527652; AGCON 1;; SIMULATED; FALSE;
NO;$
ASSETS; UPDATE; FROG10; TROOPS; {014; HEALTHY; }$
ASSETS; UPDATE; FROG10; ASSET; { 01FROG-7-HE-MSL; 4; OPERATIONAL; }$
ASSETS; UPDATE; FROG10; ASSET; { 01FROG-7-SSM; 1; OPERATIONAL; }$
ASSETS; UPDATE; FROG10; FUEL; 100; $
ASSETS; UPDATE; FROG10; RATIONS; 20; $
ASSETS; UPDATE; FROG10; WATER; 20; $
UNIT; DEFINE; FROG11; AG; ARTILLERY; SECTION; 32SPF528645; AGCON 1;; SIMULATED; FALSE;
NO;$
```

```
ASSETS; UPDATE; FROG11; TROOPS; {014; HEALTHY; }$
ASSETS; UPDATE; FROG11; ASSET; { 01FROG-7-HE-MSL; 4; OPERATIONAL; }$
ASSETS; UPDATE; FROG11; ASSET; {01FROG-7-SSM;1; OPERATIONAL;}$
ASSETS; UPDATE; FROG11; FUEL; 100; $
ASSETS; UPDATE; FROG11; RATIONS; 20;$
ASSETS; UPDATE; FROG11; WATER; 20; $
UNIT; DEFINE; TANK1; AG; TANK; COMPANY; 32SPF428801; AGCON 1;; SIMULATED; FALSE; YES;
USMC; M1A1; $
UNIT; DEFINE; TANK2; AG; TANK; COMPANY; 32SPF430778; AGCON 1;; SIMULATED; FALSE; YES;
USMC; M1A1; $
UNIT; DEFINE; TANK3; AG; TANK; COMPANY; 32SPF431757; AGCON 1;; SIMULATED; FALSE; YES;
USMC; M1A1; $
UNIT; DEFINE; TANK4; AG; TANK; COMPANY; 32SPF432739; AGCON 1;; SIMULATED; FALSE; YES;
USMC; M1A1; $
UNIT; DEFINE; TANK5; AG; TANK; COMPANY; 32SPF436718; AGCON 1;; SIMULATED; FALSE; YES;
USMC; M1A1; $
UNIT; DEFINE; TANK6; AG; TANK; COMPANY; 32SPF436696; AGCON 1;; SIMULATED; FALSE; YES;
USMC; M1A1;$
UNIT; DEFINE; LDVEH1; AG; LIGHT ARMOR; COMPANY; 32SPF596839; AGCON 1;; SIMULATED; FALSE
YES; USMC; LAI; $
UNIT; DEFINE; LDVEH2; AG; LIGHT ARMOR; COMPANY; 32SPF610829; AGCON 1;; SIMULATED; FALSE
YES; USMC; LAI; $
UNIT; DEFINE; LDVEH3; AG; LIGHT ARMOR; COMPANY; 32SPF627820; AGCON 1;; SIMULATED; FALSE
YES: USMC: LAI:$
```

E. A2C2_AG_SHIPS

```
UNIT; DEFINE; PB1; AG; SHIP; COMPANY; 32SPF496805; AGCON 1;; SIMULATED; FALSE; NO; $
ASSETS; UPDATE; PB1; ASSET; { 01PC-BOAT; 1; OPERATIONAL; } $
ASSETS; UPDATE; PB1; TROOPS; {0130; HEALTHY; }$
ASSETS; UPDATE; PB1; FUEL; 1000; $
ASSETS; UPDATE; PB1; RATIONS; 1000; $
ASSETS; UPDATE; PB1; WATER; 1000; $
UNIT; DEFINE; PB2; AG; SHIP; COMPANY; 32SPF496782; AGCON 1;; SIMULATED; FALSE; NO; $
ASSETS; UPDATE; PB2; ASSET; { 01PC-BOAT; 1; OPERATIONAL; }$
ASSETS; UPDATE; PB2; TROOPS; {0130; HEALTHY; }$
ASSETS; UPDATE; PB2; FUEL; 1000;$
ASSETS; UPDATE; PB2; RATIONS; 1000; $
ASSETS; UPDATE; PB2; WATER; 1000; $
UNIT; DEFINE; PB3; AG; SHIP; COMPANY; 32SPF500761; AGCON 1;; SIMULATED; FALSE; NO; $
ASSETS; UPDATE; PB3; ASSET; { 01PC-BOAT; 1; OPERATIONAL; }$
ASSETS; UPDATE; PB3; TROOPS; {0130; HEALTHY; }$
ASSETS; UPDATE; PB3; FUEL; 1000; $
ASSETS; UPDATE; PB3; RATIONS; 1000; $
ASSETS; UPDATE; PB3; WATER; 1000; $
UNIT; DEFINE; PB4; AG; SHIP; COMPANY; 32SPF500741; AGCON 1;; SIMULATED; FALSE; NO; $
ASSETS; UPDATE; PB4; ASSET; { 01PC-BOAT; 1; OPERATIONAL; }$
ASSETS; UPDATE; PB4; TROOPS; {0130; HEALTHY; }$
ASSETS; UPDATE; PB4; FUEL; 1000; $
ASSETS; UPDATE; PB4; RATIONS; 1000; $
ASSETS; UPDATE; PB4; WATER; 1000; $
```

```
UNIT; DEFINE; PB5; AG; SHIP; COMPANY; 32SPF501721; AGCON 1;; SIMULATED; FALSE; NO; $
ASSETS; UPDATE; PB5; ASSET; { 01PC-BOAT; 1; OPERATIONAL; \( \) s
ASSETS; UPDATE; PB5; TROOPS; {0130; HEALTHY; }$
ASSETS; UPDATE; PB5; FUEL; 1000; $
ASSETS; UPDATE; PB5; RATIONS; 1000; $
ASSETS; UPDATE; PB5; WATER; 1000; $
UNIT; DEFINE; SUB1; AG; SHIP; COMPANY; 32SPF468804; AGCON 1;; SIMULATED; FALSE; NO; $
ASSETS; UPDATE; SUB1; ASSET; { 01SUBMARINE; 1; OPERATIONAL; } $
ASSETS; UPDATE; SUB1; TROOPS; { 0130; HEALTHY; }$
ASSETS; UPDATE; SUB1; FUEL; 1000; $
ASSETS; UPDATE; SUB1; RATIONS; 1000; $
ASSETS; UPDATE; SUB1; WATER; 1000; $
UNIT; DEFINE; SUB2; AG; SHIP; COMPANY; 32SPF468781; AGCON_1;; SIMULATED; FALSE; NO; $
ASSETS; UPDATE; SUB2; ASSET; { 01SUBMARINE; 1; OPERATIONAL; } $
ASSETS; UPDATE; SUB2; TROOPS; { 0130; HEALTHY; } $
ASSETS; UPDATE; SUB2; FUEL; 1000; $
ASSETS; UPDATE; SUB2; RATIONS; 1000; $
ASSETS; UPDATE; SUB2; WATER; 1000; $
UNIT; DEFINE; SUB3; AG; SHIP; COMPANY; 32SPF467761; AGCON 1;; SIMULATED; FALSE; NO; $
ASSETS; UPDATE; SUB3; ASSET; { 01SUBMARINE; 1; OPERATIONAL; } $
ASSETS; UPDATE; SUB3; TROOPS; { 0130; HEALTHY; } $
ASSETS; UPDATE; SUB3; FUEL; 1000; $
ASSETS; UPDATE; SUB3; RATIONS; 1000; $
ASSETS; UPDATE; SUB3; WATER; 1000; $
UNIT; DEFINE; SUB4; AG; SHIP; COMPANY; 32SPF470742; AGCON_1;; SIMULATED; FALSE; NO; $
ASSETS; UPDATE; SUB4; ASSET; { 01SUBMARINE; 1; OPERATIONAL; } $
ASSETS; UPDATE; SUB4; TROOPS; { 0130; HEALTHY; }$
ASSETS; UPDATE; SUB4; FUEL; 1000; $
ASSETS; UPDATE; SUB4; RATIONS; 1000; $
ASSETS; UPDATE; SUB4; WATER; 1000; $
UNIT; DEFINE; SUB5; AG; SHIP; COMPANY; 32SPF469720; AGCON 1;; SIMULATED; FALSE; NO; $
ASSETS; UPDATE; SUB5; ASSET; {01SUBMARINE; 1; OPERATIONAL; } $
ASSETS; UPDATE; SUB5; TROOPS; { 0130; HEALTHY; }$
ASSETS; UPDATE; SUB5; FUEL; 1000; $
ASSETS; UPDATE; SUB5; RATIONS; 1000; $
```

F. A2C2 COMM AIR

```
UNIT; DEFINE; COMSUP; CIV; SUPPLY; COMPANY; 32SPF626617; AGCON_1;; SIMULATED; FALSE; YES
;
USMC; AV_ORD; $
UNIT; DEFINE; COMAIR; CIV; AIR_SQUADRON; SQUADRON; 32SPF626617; AGCON_1;; SIMULATED;
FALSE; YES; USMC; VMFA; $
AIRCRAFT; DEFINE; BOEING-747; COMAIR; 6666; QUANTITY; 48; $
AIRFIELD; DEFINE; COMFLD; 32SPF626617; OPEN; COMSUP; COMSUP; {01COMAIR; } {00;} $
```

G. A2C2 A06 SHIPS

UNIT; DEFINE; CV; LF; SHIP; COMPANY; 32SPG902122; MANCON_1;; SIMULATED; FALSE; YES; USN;
NIMITZ_CLASS; \$

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ASSETS; UPDATE; CV; FUEL; 1000000; $
UNIT; DEFINE; VF FLAG; LF; AIR SQUADRON; SQUADRON; CV; MANCON 1;; SIMULATED; FALSE; YES;
USMC; VMFA; $
AIRCRAFT; DEFINE; F-14; VF FLAG; 2222; QUANTITY; 24;$
UNIT; DEFINE; VF GREEN; LF; AIR SQUADRON; SQUADRON; CV; MANCON 2;; SIMULATED; FALSE; YES
USMC; VMFA; $
AIRCRAFT; DEFINE; FA-18; VF GREEN; 2222; QUANTITY; 24; $
UNIT; DEFINE; VF RED; LF; AIR SQUADRON; SQUADRON; CV; MANCON_5;; SIMULATED; FALSE; YES;
USMC; VMFA; $
AIRCRAFT; DEFINE; FA-18; VF RED; 2222; QUANTITY; 24;$
AIRFIELD; DEFINE; CV; CV; OPEN;;; {03VF FLAG; VF GREEN; VF RED; } {00; }$
UNIT; DEFINE; CG; LF; SHIP; COMPANY; 32SQF129936; MANCON 2;; SIMULATED; FALSE; YES; USN;
TICO CLASS;$
UNIT; DEFINE; FFG; LF; SHIP; COMPANY; 32SQG033043; MANCON 2;; SIMULATED; FALSE; YES; USN;
PERRY CLASS;$
ASSETS; UPDATE; FFG; ASSET; {01HARPOON-WH; 100; OPERATIONAL; }$
UNIT; DEFINE; DDG; LF; SHIP; COMPANY; 32SPF907936; MANCON 3;; SIMULATED; FALSE; YES; USN;
KIDD CLASS;$
ASSETS; UPDATE; DDG; ASSET; { 01HARPOON-WH; 100; OPERATIONAL; } $
CONTROL MEASURE; DEFINE; THEATRE; ;; FIRE SUPPORT COORDINATION LINE; POLYGON;
{0432spG632142;32spF672798;32soF169798;32soG159163;}DDG;$
UNIT; DEFINE; SMC; LF; SHIP; COMPANY; 32SPF953915; MANCON 3;; SIMULATED; FALSE; YES; USN;
LST:$
UNIT; DEFINE; LPD; LF; SHIP; COMPANY; 32SQF006850; MANCON 3;; SIMULATED; FALSE; YES; USN;
UNIT; DEFINE; VMV PURPLE; LF; AIR SQUADRON; SQUADRON; LPD; MANCON 4; ; SIMULATED; FALSE;
YES; USMC; HMM; $
AIRCRAFT; DEFINE; MV-22; VMV PURPLE; 5555; QUANTITY; 24;$
AIRFIELD; DEFINE; LPD; LPD; OPEN; ;; { 01VMV PURPLE; } { 00; } $
UNIT; DEFINE; AAAV1; LF; SHIP; COMPANY; 32SQF006850; MANCON 4;; SIMULATED; FALSE; NO; $
ASSETS; UPDATE; AAAV1; ASSET; { 01AAAV; 1; OPERATIONAL; } $
UNIT; DEFINE; LHA; LF; SHIP; COMPANY; 32SPF963991; MANCON 3;; SIMULATED; FALSE; YES; USN;
LHA;$
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H. A2C2 A06 LF GRD

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UNIT; DEFINE; SOF; LF; RECONNAISSANCE; TEAM; 32SPG727000; MANCON 6;; SIMULATED; FALSE;
YES; USMC; FORCE RECON; $
UNIT; INVISIBLE; SOF; ; YES; $
UNIT; DEFINE; ENG; LF; ENGINEER; COMPANY; LPD; MANCON 6;; SIMULATED; FALSE; YES; USMC;
CMB ENG;$
UNIT; DEFINE; MED1; LF; MEDICAL; COMPANY; LPD; MANCON 3;; SIMULATED; FALSE; YES; USMC;
MED DET;$
UNIT; DEFINE; MED2; LF; MEDICAL; COMPANY; LHA; MANCON 3;; SIMULATED; FALSE; YES; USMC;
MED DET;$
UNIT; DEFINE; MED3; LF; MEDICAL; COMPANY; LHA; MANCON_3;; SIMULATED; FALSE; YES; USMC;
MED DET;$
#
UNIT; DEFINE; INF_H/B; LF; INFANTRY; COMPANY; LHA; MANCON 3;; SIMULATED; FALSE; YES; USMC
IFY 3;$
UNIT; DEFINE; INF H/P; LF; INFANTRY; COMPANY; LPD; MANCON 4;; SIMULATED; FALSE; YES; USMC
IFY 3;$
UNIT; DEFINE; INF A1/P; LF; INFANTRY; COMPANY; AAAV1; MANCON 4;; SIMULATED; FALSE; YES;
USMC; IFY 3;$
UNIT; DEFINE; INF A2/P; LF; INFANTRY; COMPANY; AAAV2; MANCON 4;; SIMULATED; FALSE; YES;
USMC; IFY 3;$
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I. A2C2 SCRIPT

TIMETAG=060801ZJAN99;AIR_MISSION;DEFINE;AA86;BOEING-747;1;COMAIR;COMFLD;;;;
TRANSPORT;TAKE_OFF;;{1232SPF839646;HIGH;WAY_POINT;32SPF751771;HIGH;WAY_POINT;

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32SQF021826; HIGH; WAY POINT; 32SPF757952; MEDIUM; WAY POINT; 32SPF968999; MEDIUM;
WAY POINT; 32SPG826156; MEDIUM; WAY POINT; 32SPG893242; MEDIUM; WAY POINT;
32SOG284291; MEDIUM; WAY POINT; 32SOG096123; MEDIUM; WAY POINT; 32SOF060866; MEDIUM;
WAY POINT; 32SOF045729; MEDIUM; WAY POINT; 32SPF726865; MEDIUM; WAY POINT; }$
TIMETAG=060802ZJAN99;SHIP OPERATIONS;LOCATE;PB1;32SPG683134;$
TIMETAG=060802ZJAN99; SHIP OPERATIONS; MOVE; BY SHIP; PB1; COLLOCATED; NO;; NO;;
{0132SPG804060;;}$
TIMETAG=060804ZJAN99; SHIP OPERATIONS; LOCATE; SUB1; 32SQG111096; $
TIMETAG=060804ZJAN99;SHIP OPERATIONS; MOVE; BY SHIP; SUB1; COLLOCATED; NO;; NO;;
{0132SPG902122;;}$
TIMETAG=060804ZJAN99; AIR MISSION; DEFINE; BOGEY1; SU-24-
FENCER; 2; AGAIR1; AGFLD1;;;;
DAS; AGORD2;;; FALSE; TAKE OFF;; {0332SPF755665; VERY LOW; WAY POINT; 32SPF814965;
VERY LOW; WAY POINT; CV; VERY LOW; ATTACK; }$
TIMETAG=060805ZJAN99; UNIT; LOCATE; FROG1; 32SPF817938; $
TIMETAG=060807ZJAN99;UNIT;LOCATE;FROG2;32SPF825905;$
TIMETAG=060807ZJAN99; AIR MISSION; DEFINE; UA18; BOEING-747; 1; COMAIR; COMFLD; ; ; ;
TRANSPORT; TAKE OFF;; { 0632SPF573843; MEDIUM; WAY POINT; 32SPG612134; MEDIUM;
WAY POINT; 32SPG897252; MEDIUM; WAY POINT; 32SQG128196; MEDIUM; WAY POINT;
32SOG344048; MEDIUM; WAY POINT; 32SOF327717; MEDIUM; WAY POINT; }$
TIMETAG=060808ZJAN99;UNIT;LOCATE;SILK1;32SPF829968;$
TIMETAG=060810ZJAN99; UNIT; LOCATE; FROG1; 32SPF522806; $
TIMETAG=060810ZJAN99; AIR MISSION; DEFINE; BOGEY2; SU-24-
FENCER; 2; AGAIR1; AGFLD1;;;;
DAS; AGORD2;;; FALSE; TAKE OFF;; {0432SPF373869; VERY LOW; WAY POINT; 32SPG508313;
VERY LOW; WAY POINT; 32SPG750461; VERY LOW; WAY POINT; CV; MEDĪUM; ATTACK; }$
TIMETAG=060811ZJAN99; SHIP OPERATIONS; LOCATE; SUB2; 32SQF164977;$
TIMETAG=060811ZJAN99; SHIP OPERATIONS; MOVE; BY SHIP; SUB2; COLLOCATED; NO;; NO;;
{0132SPG972001;;}$
TIMETAG=060812ZJAN99; UNIT; LOCATE; FROG2; 32SPF523783; $
TIMETAG=060814ZJAN99; UNIT; LOCATE; SILK2; 32SPF867878; $
TIMETAG=060814ZJAN99; AIR MISSION; DEFINE; BOGEY3; SU-24-
FENCER; 2; AGAIR1; AGFLD1;;;;
DAS; AGORD2;;; FALSE; TAKE OFF;; {0432SPF713793; VERY LOW; WAY POINT; 32SPF759910;
VERY LOW; WAY POINT; 32SPF843918; VERY LOW; WAY POINT; LHA; MEDIUM; ATTACK; }$ -
TIMETAG=060814ZJAN99; AIR MISSION; DEFINE; DL403; BOEING-747; 1; COMAIR; COMFLD;;;;
TRANSPORT; TAKE OFF;; {0732SPF551862; MEDIUM; WAY POINT; 32SPG632014; MEDIUM;
WAY POINT; 32SPG709136; MEDIUM; WAY POINT; 32SPG913182; MEDIUM; WAY POINT;
32SQG106172; MEDIUM; WAY POINT; 32SQG221067; MEDIUM; WAY POINT; 32SQF217756; MEDIUM;
WAY POINT; }$
TIMETAG=060815ZJAN99; UNIT; LOCATE; FROG3; 32SPF830879; $
TIMETAG=060816ZJAN99; AIR MISSION; DEFINE; QA142; BOEING-747; 1; COMAIR; COMFLD;;;;
TRANSPORT; TAKE OFF;; {0832SPF710776; MEDIUM; WAY POINT; 32SPF788851; MEDIUM;
WAY POINT; 32SPF932835; MEDIUM; WAY POINT; 32SQF081873; MEDIUM; WAY POINT;
32SQF138911; MEDIUM; WAY POINT; 32SQG197039; MEDIUM; WAY POINT; 32SQG137101; MEDIUM;
WAY POINT; 32SPG959152; MEDIUM; WAY POINT; }$
TIMETAG=060816ZJAN99; AIR MISSION; DEFINE; QA142; BOEING-747; 1; COMAIR; COMFLD; ; ; ;
TRANSPORT; TAKE OFF;; {0832SPF885580; MEDIUM; WAY POINT; 32SQF314603; MEDIUM;
WAY POINT;32SQF289905;MEDIUM;WAY POINT;32SQG087128;MEDIUM;WAY POINT;
32SPG984184; MEDIUM; WAY POINT; 32SPG915182; MEDIUM; WAY POINT; 32SPG772168; MEDIUM;
WAY POINT; 32SPG604120; MEDIUM; WAY POINT; }$
TIMETAG=060816ZJAN99; AIR MISSION; DEFINE; BOGEY4; SU-24-
FENCER; 2; AGAIR1; AGFLD1;;;;
DAS; AGORD2;;; FALSE; TAKE OFF;; {0432SPF738785; VERY LOW; WAY POINT; 32SPF842835;
VERY LOW; WAY POINT; 32SPF936866; VERY LOW; WAY POINT; LHA; MEDIUM; ATTACK; }$
TIMETAG=060817ZJAN99; SHIP OPERATIONS; LOCATE; PB2; 32SQG053159; $
TIMETAG=060817ZJAN99;SHIP OPERATIONS; MOVE; BY SHIP; PB2; COLLOCATED; NO;; NO;;
{0132SPG987047;;}$
TIMETAG=060818ZJAN99; UNIT; LOCATE; FROG4; 32SPF806917; $
TIMETAG=060819ZJAN99; AIR MISSION; DEFINE; HELO1; MI-24-HIND; 1; AGAIR1; AGFLD1;;;;
DAS; AGORD1;;; FALSE; TAKE OFF;; {0432SPF542890; VERY LOW; WAY POINT; 32SPF644938;
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VERY LOW; WAY POINT; 32SPF813936; VERY LOW; WAY POINT; LHA; VERY LOW; ATTACK; }$
 TIMETAG=060820ZJAN99; UNIT; LOCATE; ARTY1; 32SPF785918; $
 TIMETAG=060820ZJAN99; UNIT; LOCATE; FROG3; 32SPF524762;$
 TIMETAG=060820ZJAN99; AIR MISSION; DEFINE; BOGEY5; SU-24-
 FENCER; 2; AGAIR1; AGFLD1;;;;
 DAS; AGORD2;;; FALSE; TAKE_OFF;; {0432SPF684807; VERY_LOW; WAY_POINT; 32SPF721962;
 VERY LOW; WAY POINT; 32SPG818017; VERY LOW; WAY POINT; CV; MEDIUM; ATTACK; }$
 TIMETAG=060821ZJAN99; UNIT; LOCATE; SILK1; 32SPF596808; $
 TIMETAG=060822ZJAN99; UNIT; LOCATE; SILK2; 32SPF597796; $
 TIMETAG=060823ZJAN99; UNIT; LOCATE; FROG4; 32SPF524741; $
 TIMETAG=060823ZJAN99;UNIT;LOCATE;FROG5;32SPF820943;$
 TIMETAG=060822ZJAN99; AIR MISSION; DEFINE; BOGEY6; SU-24-
 FENCER; 2; AGAIR1; AGFLD1;;;;
DAS; AGORD2;;; FALSE; TAKE_OFF;; {0632SPF758748; VERY_LOW; WAY_POINT; 32SPF865835;
VERY_LOW; WAY_POINT; 32SPF946877; VERY_LOW; WAY_POINT; 32SPF799904; MEDIUM; WAY_POINT
32SPF850992; MEDIUM; WAY POINT; LHA; MEDIUM; ATTACK; }$
TIMETAG=060824ZJAN99; SHIP OPERATIONS; LOCATE; PB3; 32SQF031800; $
TIMETAG=060824ZJAN99; SHIP_OPERATIONS; MOVE; BY_SHIP; PB3; COLLOCATED; NO;; NO;;
{0132SPF880849;;}$
TIMETAG=060825ZJAN99; AIR_MISSION; DEFINE; HELO2; MI-24-HIND; 1; AGAIR1; AGFLD1;;;;
DAS; AGORD1;;; FALSE; TAKE_OFF;; {0432SPF747805; VERY_LOW; WAY_POINT; 32SPF703929;
VERY_LOW; WAY_POINT; 32SPF806967; VERY_LOW; WAY_POINT; LHA; VERY_LOW; ATTACK; }$
TIMETAG=060825ZJAN99;UNIT;LOCATE;ARTY1;32SPF578807;$
TIMETAG=060826ZJAN99;SHIP_OPERATIONS;LOCATE;SUB3;32SQF162979;$
TIMETAG=060826ZJAN99; SHIP OPERATIONS; MOVE; BY SHIP; SUB3; COLLOCATED; NO;; NO;;
{0132SPF948957;;}$
TIMETAG=060827ZJAN99;UNIT;LOCATE;FROG6;32SPF822872;$
TIMETAG=060827ZJAN99; AIR_MISSION; DEFINE; LU812; BOEING-747; 1; COMAIR; COMFLD; ; ; ;
TRANSPORT; TAKE OFF;; {0832SPF682835; MEDIUM; WAY POINT; 32SPF682914; MEDIUM;
WAY_POINT; 32SPG714074; MEDIUM; WAY POINT; 32SPG845132; MEDIUM; WAY POINT;
32SQG063132; MEDIUM; WAY_POINT; 32SQG138046; MEDIUM; WAY_POINT; 32SQF084968; MEDIUM;
WAY POINT; 32SQF094815; MEDIUM; WAY POINT; }$
TIMETAG=060827ZJAN99; AIR MISSION; DEFINE; BOGEY7; SU-24-
FENCER;2;AGAIR1;AGFLD1;;;;
DAS; AGORD2;;; FALSE; TAKE OFF;; {0632SPF747768; VERY LOW; WAY POINT; 32SPF862822;
VERY_LOW; WAY_POINT; 32SPF918891; VERY_LOW; WAY_POINT; 32SQF009936; MEDIUM; WAY_POINT
32SQG005007; MEDIUM; WAY POINT; LHA; MEDIUM; ATTACK; }$
TIMETAG=060828ZJAN99; UNIT; LOCATE; FROG5; 32SPF524723; $
TIMETAG=060829ZJAN99; AIR MISSION; DEFINE; BOGEY8; SU-24-
FENCER; 2; AGAIR1; AGFLD1;;;;
DAS; AGORD2;;; FALSE; TAKE_OFF;; {0632SPG578011; VERY_LOW; WAY_POINT; 32SPF764998;
VERY_LOW; WAY_POINT; 32SPG751108; VERY_LOW; WAY_POINT; 32SPG810091; MEDIUM; WAY_POINT
CV; MEDIUM; ATTACK; LHA; MEDIUM; ATTACK; }$
TIMETAG=060830ZJAN99;UNIT;LOCATE;FROG7;32SPF773902;$
TIMETAG=060830ZJAN99; AIR_MISSION; DEFINE; BA564; BOEING-747; 1; COMAIR; COMFLD; ; ; ;
TRANSPORT; TAKE_OFF;; {1232SPF839646; HIGH; WAY_POINT; 32SPF751771; HIGH; WAY_POINT;
32SQF021826;HIGH;WAY_POINT;32SPF757952;MEDIUM;WAY_POINT;32SPF968999;MEDIUM;
WAY POINT; 32SPG826156; MEDIUM; WAY POINT; 32SPG893242; MEDIUM; WAY POINT;
32SQG284291; MEDIUM; WAY_POINT; 32SQG096123; MEDIUM; WAY_POINT; 32SQF060866; MEDIUM;
WAY_POINT; 32SQF045729; MEDIUM; WAY_POINT; 32SPF726865; MEDIUM; WAY_POINT; }$
TIMETAG=060831ZJAN99; UNIT; LOCATE; SILK3; 32SPF870863; $
TIMETAG=060831ZJAN99; AIR_MISSION; DEFINE; HELO3; MI-24-HIND; 1; AGAIR1; AGFLD1;;;;
DAS; AGORD1;;; FALSE; TAKE_OFF;; {0432SPF542890; VERY_LOW; WAY_POINT; 32SPF644938;
VERY_LOW; WAY_POINT; 32SPF813936; VERY_LOW; WAY_POINT; LHA; VERY_LOW; ATTACK; }$
TIMETAG=060832ZJAN99; UNIT; LOCATE; FROG6; 32SPF524708; $
TIMETAG=060832ZJAN99; AIR MISSION; DEFINE; BOGEY2; SU-24-
FENCER; 2; AGAIR1; AGFLD1;;;;
DAS; AGORD2;;; FALSE; TAKE_OFF;; {0432SPF373869; VERY_LOW; WAY_POINT; 32SPG508313;
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VERY LOW; WAY POINT; 32SPG750461; VERY LOW; WAY POINT; CV; MEDIUM; ATTACK; }$
TIMETAG=060833ZJAN99; SHIP OPERATIONS; LOCATE; PB4; 32SPG849040; $
TIMETAG=060833ZJAN99;SHIP OPERATIONS; MOVE; BY SHIP; PB4; COLLOCATED; NO;; NO;;
{0132SPG940034;;}$
TIMETAG=060834ZJAN99; SHIP OPERATIONS; LOCATE; SUB4; 32SPG991156; $
TIMETAG=060834ZJAN99;SHIP OPERATIONS;MOVE;BY SHIP;SUB4;COLLOCATED;NO;;NO;;
{0132SPG932070;;}$
TIMETAG=060835ZJAN99; UNIT; LOCATE; ARTY2; 32SPF788855; $
TIMETAG=060835ZJAN99; UNIT; LOCATE; FROG7; 32SPF528689; $
TIMETAG=060835ZJAN99;AIR MISSION; DEFINE; DL403; BOEING-747;1; COMAIR; COMFLD;;;;
TRANSPORT; TAKE OFF;; {0732SPF551862; MEDIUM; WAY_POINT; 32SPG632014; MEDIUM;
WAY POINT; 32SPG709136; MEDIUM; WAY POINT; 32SPG913182; MEDIUM; WAY POINT;
32SQG106172; MEDIUM; WAY POINT; 32SQG221067; MEDIUM; WAY POINT; 32SQF217756; MEDIUM;
WAY POINT; }$
TIMETAG=060836ZJAN99; UNIT; LOCATE; FROG8; 32SPF790924; $
TIMETAG=060837ZJAN99; UNIT; LOCATE; SILK3; 32SPF597786; $
TIMETAG=060837ZJAN99; UNIT; LOCATE; FROG9; 32SPF798956; $
TIMETAG=060837ZJAN99; AIR MISSION; DEFINE; HELO4; MI-24-HIND; 1; AGAIR1; AGFLD1;;;;
DAS; AGORD1;;; FALSE; TAKE OFF;; {0432SPF731769; VERY LOW; WAY POINT; 32SPF844821;
VERY LOW; WAY POINT; 32SPF851915; VERY LOW; WAY POINT; LHA; VERY LOW; ATTACK; }$
TIMETAG=060837ZJAN99;AIR MISSION; DEFINE; BOGEY10; SU-24-
FENCER; 2; AGAIR1; AGFLD1;;;
; DAS; AGORD2;;; FALSE; TAKE OFF;; {0532SPF684813; VERY LOW; WAY POINT; 32SPF707972;
VERY LOW; WAY POINT; 32SPF805996; VERY LOW; WAY POINT; 32SPG917025; MEDIUM; WAY POINT
LHA; MEDIUM; ATTACK; }$
TIMETAG=060839ZJAN99; AIR MISSION; DEFINE; BOGEY11; SU-24-
FENCER; 2; AGAIR1; AGFLD1;;;
; DAS; AGORD2;;; FALSE; TAKE OFF;; {0332SPF645842; VERY LOW; WAY POINT; 32SPF694916;
VERY LOW; WAY POINT; 32SPF774908; VERY LOW; ORBIT; }$
TIMETAG=060840ZJAN99; UNIT; LOCATE; ARTY2; 32SPF580783; $
TIMETAG=060840ZJAN99; SHIP_OPERATIONS; LOCATE; PB5; 32SPG853148; $
TIMETAG=060840ZJAN99;SHIP OPERATIONS; MOVE; BY SHIP; PB5; COLLOCATED; NO;; NO;;
{0132SPG804062;;}$
TIMETAG=060840ZJAN99; AIR MISSION; DEFINE; FT901; BOEING-747; 1; COMAIR; COMFLD; ; ; ;
TRANSPORT; TAKE OFF;; {0832SPF710776; MEDIUM; WAY POINT; 32SPF788851; MEDIUM;
WAY POINT; 32SPF932835; MEDIUM; WAY_POINT; 32SQF081873; MEDIUM; WAY_POINT;
32SQF138911; MEDIUM; WAY POINT; 32SQG197039; MEDIUM; WAY POINT; 32SQG137101; MEDIUM;
WAY POINT; 32SPG959152; MEDIUM; WAY_POINT; }$
TIMETAG=060841ZJAN99; UNIT; LOCATE; FROG8; 32SPF528670; $
TIMETAG=060841ZJAN99; AIR MISSION; DEFINE; GT4; BOEING-747; 1; COMAIR; COMFLD;;;;
TRANSPORT; TAKE OFF;; {0832SPF682835; MEDIUM; WAY POINT; 32SPF682914; MEDIUM;
WAY POINT; 32SPG714074; MEDIUM; WAY POINT; 32SPG845132; MEDIUM; WAY POINT;
32SQG063132; MEDIUM; WAY POINT; 32SQG138046; MEDIUM; WAY POINT; 32SQF084968; MEDIUM;
WAY POINT; 32SQF094815; MEDIUM; WAY POINT; }$
TIMETAG=060842ZJAN99; SHIP OPERATIONS; LOCATE; SUB5; 32SQG140152; $
TIMETAG=060842ZJAN99; SHIP OPERATIONS; MOVE; BY SHIP; SUB5; COLLOCATED; NO;; NO;;
{0132SPG903121;;}$
TIMETAG=060843ZJAN99; UNIT; LOCATE; ARTY3; 32SPF826855; $
TIMETAG=060843ZJAN99; UNIT; LOCATE; FROG9; 32SPF526657; $
TIMETAG=060845ZJAN99; UNIT; LOCATE; FROG10; 32SPF804902; $
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J. A2C2 A14 LF GRD

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UNIT; DEFINE; SOF; LF; RECONNAISSANCE; TEAM; 32SPG727000; MANCON_1;; SIMULATED; FALSE;
YES; USMC; FORCE_RECON; $
UNIT; INVISIBLE; SOF; ; YES; $
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UNIT; DEFINE; ENG; LF; ENGINEER; COMPANY; LPD; MANCON_1;; SIMULATED; FALSE; YES; USMC;
CMB ENG;$
UNIT; DEFINE; MED/B; LF; MEDICAL; COMPANY; LPD; MANCON_3;; SIMULATED; FALSE; YES; USMC;
MED DET;$
UNIT; DEFINE; MED1/P; LF; MEDICAL; COMPANY; LHA; MANCON 4;; SIMULATED; FALSE; YES; USMC;
MED DET:$
UNIT; DEFINE; MED2/P; LF; MEDICAL; COMPANY; LHA; MANCON 4;; SIMULATED; FALSE; YES; USMC;
MED DET;$
#
.#
UNIT; DEFINE; INF H/B; LF; INFANTRY; COMPANY; LPD; MANCON 3;; SIMULATED; FALSE; YES; USMC
IFY 3;$
UNIT; DEFINE; INF A/B; LF; INFANTRY; COMPANY; AAAV/B; MANCON 3;; SIMULATED; FALSE; YES;
USMC; IFY 3;$
UNIT; DEFINE; INF H/P; LF; INFANTRY; COMPANY; LHA; MANCON 4;; SIMULATED; FALSE; YES; USMC
IFY 3;$
UNIT; DEFINE; INF A/P; LF; INFANTRY; COMPANY; AAAV/P; MANCON 4;; SIMULATED; FALSE; YES;
USMC; IFY 3;$
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K. A2C2 A14 LF SHIPS

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UNIT; DEFINE; CV; LF; SHIP; COMPANY; 32SPG902122; MANCON 2;; SIMULATED; FALSE; YES; USN;
NIMITZ CLASS:$
ASSETS; UPDATE; CV; FUEL; 1000000; $
UNIT; DEFINE; VF GREEN; LF; AIR SQUADRON; SQUADRON; CV; MANCON 2;; SIMULATED; FALSE; YES
USMC; VMFA; $
AIRCRAFT; DEFINE; F-14; VF GREEN; 2222; QUANTITY; 24; $
UNIT; DEFINE; VF_FLAG; LF; AIR_SQUADRON; SQUADRON; CV; MANCON 1;; SIMULATED; FALSE; YES;
USMC; VMFA; $
AIRCRAFT; DEFINE; FA-18; VF FLAG; 2222; QUANTITY; 24; $
UNIT; DEFINE; VF BLUE; LF; AIR_SQUADRON; SQUADRON; CV; MANCON 3;; SIMULATED; FALSE; YES;
USMC; VMFA; $
AIRCRAFT; DEFINE; FA-18; VF BLUE; 2222; QUANTITY; 24; $
UNIT; DEFINE; VF_PURPLE; LF; AIR_SQUADRON; SQUADRON; CV; MANCON 4;; SIMULATED; FALSE;
YES; USMC; VMFA; $
AIRCRAFT; DEFINE; FA-18; VF PURPLE; 2222; QUANTITY; 24; $
AIRFIELD; DEFINE; CV; CV; OPEN; ;; {04VF_GREEN; VF_FLAG; VF_BLUE; VF_PURPLE; } {00; }$
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UNIT; DEFINE; CG; LF; SHIP; COMPANY; 32SQF129936; MANCON 2;; SIMULATED; FALSE; YES; USN;
TICO CLASS;$
UNIT; DEFINE; FFG; LF; SHIP; COMPANY; 32SQG033043; MANCON 2;; SIMULATED; FALSE; YES; USN;
PERRY CLASS;$
ASSETS; UPDATE; FFG; ASSET; { 01HARPOON-WH; 100; OPERATIONAL; }$
UNIT; DEFINE; DDG; LF; SHIP; COMPANY; 32SPF907936; MANCON 2;; SIMULATED; FALSE; YES; USN;
KIDD CLASS;$
ASSETS; UPDATE; DDG; ASSET; { 01HARPOON-WH; 100; OPERATIONAL; }$
CONTROL MEASURE; DEFINE; THEATRE; ;; FIRE SUPPORT COORDINATION LINE; POLYGON;
{0432SPG632142;32SPF672798;32SQF169798;32SQG159163;}DDG;$
UNIT; DEFINE; SMC; LF; SHIP; COMPANY; 32SPF953915; MANCON 2;; SIMULATED; FALSE; YES; USN;
UNIT; DEFINE; LPD; LF; SHIP; COMPANY; 32SQF006850; MANCON 3;; SIMULATED; FALSE; YES; USN;
LPD;$
UNIT; DEFINE; VMV BLUE; LF; AIR SQUADRON; SQUADRON; LPD; MANCON 3;; SIMULATED; FALSE;
YES; USMC; HMM; $
AIRCRAFT; DEFINE; MV-22; VMV BLUE; 5555; QUANTITY; 24;$
AIRFIELD; DEFINE; LPD; LPD; OPEN;;; {01VMV BLUE; } {00; }$
UNIT; DEFINE; AAAV/B; LF; SHIP; COMPANY; 32SQF006850; MANCON 3;; SIMULATED; FALSE; NO; $
ASSETS; UPDATE; AAAV/B; ASSET; { 01AAAV; 1; OPERATIONAL; }$
UNIT; DEFINE; LHA; LF; SHIP; COMPANY; 32SPF963991; MANCON 4;; SIMULATED; FALSE; YES; USN;
LHA;$
ASSETS; UPDATE; LHA; FUEL; 1000000; $
SEARCH RADAR; DEFINE; LHA; 32SPF962991; SPS-48-RADAR; LHA; $
UNIT; DEFINE; VMV PURPLE; LF; AIR SQUADRON; SQUADRON; LHA; MANCON 4;; SIMULATED; FALSE;
YES; USMC; HMM; $
AIRCRAFT; DEFINE; MV-22; VMV PURPLE; 5555; QUANTITY; 24; $
AIRFIELD; DEFINE; LHA; LHA; OPEN;;; { 01VMV PURPLE; } { 00; }$
UNIT; DEFINE; AAAV/P; LF; SHIP; COMPANY; 32SPF963991; MANCON 4;; SIMULATED; FALSE; NO; $
ASSETS; UPDATE; AAAV/P; ASSET; { 01AAAV; 1; OPERATIONAL; }$
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APPENDIX J – RED PLAYER VARIATION SCRIPTS

A. OPTION 1

Option 1 for controller submitted red forces

D=Dummy H=Hostile N = North Road S = South Road

Silkworm Sites	Lead Vehicle
Silk1 = D	Ld 1 D @ T+3 N
Silk2 = H	Ld 2 D @ T+6 S
Silk3 = H	Ld 3 D @ T+17 N
Silk4 = D	Ld 4 H @ T+20 S
Silk5 = H	Ld 5 D @ T+20 N

- A. Medical situations are spawned by the following events
- 1. Hill
- 2. Tank2
- 3. Minefield at seaport
- 4. Airport
- B. Tanks are spawned by the infantry position on the roads.
- C. SAM sites are spawned by the infantry units near the airport and the seaport.

B. OPTION 2

Option 2 for controller submitted red forces

D = Dummy H = Hostile N = North Road S = South Road

Silkworm Sites	Lead Vehicle
Silk1 H	Ld 1 D @ T+6 N
Silk2 H	Ld 2 D @ T+10 S
Silk3 H	Ld 3 D @ T+15 N
Silk4 D	Ld 4 D @ T+20 S
Silk5 D	Ld 5 D @ T+25 N
Silk6 H	Ld 6 H @ T+25 S

- A. Medical situations are spawned by the following events.
- 1. North Beach
- 2. Tank 2
- 3. Minefield on south road
- 4. Airport
- B. Tanks are spawned by the infantry position on the roads.
- C. SAM sites are spawned by the infantry units near the airport and the seaport.

C. OPTION 3

Option 3 for controller submitted red forces

D = Dumm H = HostileN = North R5 = South Road

Silkworm Sites	Lead Vehicle
Silk1 D	Ld 1 D @ T+3 N
Silk2 D	Ld 2 D @ T+5 S
Silk3 H	Ld 3 D @ T+9 N
Silk4 D	Ld 4 D @ T+15 S
Silk5 H	Ld 5 H @ T,+20 N
Silk6 D	Ld 6 D @ T+20 S
Silk7 H	•

- A. Medical situations are spawned by the following events.
- 1. North Beach
- 2. Tank1
- 3. Minefield on North Road
- 4. Airport
- B. Tanks are spawned by the infantry position on the roads.
- C. SAM sites are spawned by the infantry units near the airport and the seaport.

D. OPTION 4

Option 4 for controller submitted red forces

D = Dummy H = Hostile N = North Road S = South Road

Silkworm Sites	Lead Vehicle
Silk1 H	Ld 1 D @ T+3 N
Silk2 D	Ld 2 D @ T+3 S
Silk3 H	Ld 3 D @ T+9 N
Silk4 D	Ld 4 H @ T+15 S
Silk5 D	Ld 5 D @ T+17 N
Silk6 D	•
Silk7 D	

- A. Medical situations are spawned by the following events.
- 1. North Beach
- 2. Tank1
- 3. Minefield on North Road
- 4. Airport
- B. Tanks are spawned by the infantry position on the roads.
- C. SAM sites are spawned by the infantry units near the airport and the seaport.

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